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UNDERGRADUATE

This catalog is applicable to students who enroll at the University of Louisville beginning Summer 2018 through Spring 2019. The University catalog is the official source for all degree program and academic requirements as well as institutional policies and procedures. It is the document of authority for all students. The program requirements listed in the catalog supersede any information which may be contained in the bulletin of any school or department.

« View previous versions (p. 791)

Revised May 2018.

The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, bachelor, master, specialist, doctoral, and first-professional degrees (DMD, JD, MD). Individuals who wish to contact the Commission on Colleges regarding the accreditation status of the university may write the Commission at:

Southern Association of Colleges and Schools
1866 Southern Lane
Decatur, Georgia 30033-4097
(404) 679-4500

The University of Louisville reserves the right to change programs of study, academic policies, academic requirements, fees, course information, procedures for the confirmation of degrees, or the announced academic calendar and related deadlines without prior notice.

The provisions of this publication do not constitute an express or implied contract between the University of Louisville and any member of the student body, faculty, or general public.

The University of Louisville is an equal-opportunity institution and does not discriminate against persons because of race, religion, sex, age, handicap, color, citizenship or national origin. If responses from the unit staff are unsatisfactory, inquiries or complaints about illegal discrimination including sexual harassment or handicap access can be made to the Affirmative Action director by calling (502) 852-6538.

The Redbook is the official statement of the organizational structure, the rules of governance and procedures, and university-wide policies of the University of Louisville. If there is any conflict between the policies, procedures or other statements contained within this catalog, The Redbook shall govern. A copy of (http://louisville.edu/provost/redbook/contents.html) The Redbook is available electronically.

Additional policies and information covering students can be found in the Student Handbook (http://louisville.edu/dos/students/studentpoliciesandprocedures/student-handbook).

Admissions criteria for many of the colleges and schools are reviewed periodically. Students should contact their anticipated unit or the Office of Admissions for information on the requirements in effect at the time of admission.

Students should check with their academic advisor concerning the General Education Requirements in effect at the time of their admission.

- © University of Louisville (http://louisville.edu)
- Contact (http://louisville.edu/contact.html)
ABOUT THE UNIVERSITY OF LOUISVILLE

The University of Louisville (UofL) is a state-supported research university located in the largest city in the Commonwealth of Kentucky. UofL was initially chartered in 1798 as one of the nation’s first urban institutions. Though grounded in a rich legacy, UofL is forward-thinking in its approach to teaching, research and service. As it focuses on the challenges and opportunities of the 21st century, the university advances the social and economic development of its community and its citizens. UofL enrolls more than 22,000 students and offers undergraduate degrees in over 50 fields of study, master’s degrees in over 70 areas, and doctoral degrees in over 35 disciplines. The university also is accredited to grant professional degrees in medicine, dentistry, and law.

UofL contributes significantly to the economic, cultural and intellectual life of the Louisville community, yet the magnitude of its achievements reach beyond Louisville into every corner of Kentucky and across the nation. Our network is over 130,000 strong, with alumni living all over the Commonwealth of Kentucky, the United States, and the World. UofL has trained about 30 percent of Kentucky’s physicians and attorneys and almost half of its dentists.

At UofL, students learn from faculty members who are experts in their subject areas. Nearly 93 percent of the 1,812 full-time faculty hold the highest degrees in their field. In addition to their classroom duties, UofL faculty are leading research projects funded at more than $147 million in federal, local, and private grants for Fiscal Year 2017 (source: UofL-Research-Innovation-Metrics).

Those same professors share the latest research, techniques, and knowledge with students in the classroom. Faculty and student researchers are aided by leading-edge computer systems and laboratories. They may also gather information from across the ages and around the world through the University Libraries system that offers more than 2.1 million volumes, 92,000 print and electronic journal titles journal subscriptions, and unique resources through its special collections and archives.

A diverse student body enriches the educational experience at UofL. Students of color represent almost 1 in 4 students and international students represent 5 percent of total enrollment. While Kentucky students account for the majority of the student population with over 40 percent coming from Jefferson County, almost one-quarter of UofL students are from other states. 458 campus organizations help students meet new friends, develop leadership skills and explore new interests.

Sports fans are also able to enjoy Division I men’s and women’s athletics; UofL is a proud member of the Atlantic Coast Conference (ACC).

UofL’s Belknap Campus is home to eight of its 12 academic schools and colleges: Arts and Sciences, Business, Education and Human Development, Engineering, Interdisciplinary and Graduate Studies, Law, Music, and Social Work.

The Health Sciences Campus, located in the city’s downtown medical complex, includes the schools of Medicine, Nursing, Dentistry, and Public Health, along with UofL Hospital.

Additional information about UofL can be found on the following pages:

• Mission Statement (p. 10)
• History of the University (p. 13)
• Institutional and Professional Accreditation (p. 11)
• Leadership (p. 12)
• Academic Freedom at the University (p. 15)
• Americans with Disabilities Act (p. 15)
• Drug-Free Schools and Campuses (p. 17)
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Mission Statement

The University of Louisville pursues excellence and inclusiveness in its work to educate and serve its community through:

1. teaching diverse undergraduate, graduate, and professional students in order to develop engaged citizens, leaders, and scholars;
2. practicing and applying research, scholarship and creative activity; and
3. providing engaged service and outreach that improve the quality of life for local and global communities.

The University is committed to achieving preeminence as a nationally recognized metropolitan research university.

As adopted by the Board of Trustees of the University of Louisville, January 14, 2016
Institutional Accreditation

The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, bachelor, master, specialist, doctoral, and first-professional degrees (DMD, JD, MD).

Individuals who wish to contact the Commission on Colleges regarding the accreditation status of the university may do so at:

Southern Association of Colleges and Schools Commission on Colleges
1866 Southern Lane
Decatur, Georgia 30033-4097
or call (404) 679-4500

Professional Accreditations

Accountancy (C, BS, MAC): Association to Advance Collegiate Schools of Business (AACSB International) (http://www.aacsb.edu)

Art Therapy (MEd): (Expressive Therapies) American Art Therapy Association (http://arttherapy.org)

Audiology (AuD): Council on Academic Accreditation in Audiology and Speech-Language Pathology (http://caa.asha.org)

Business (Undergraduate and Graduate): Association to Advance Collegiate Schools of Business (AACSB International) (http://www.aacsb.edu)

Chemistry (BS): American Chemical Society (ACS) (http://www.acs.org/content/acs/en/about/governance/committees/training/acssapproved.html)

Clinical Psychology (PhD): American Psychological Association (APA) (http://www.apa.org)

Clinical Mental Health Counseling (MEd): Council for Accreditation of Counseling and Related Educational Programs (CACREP) (http://www.cacrep.org)

Computer Engineering and Computer Science (BS): Computing Accreditation Commission of ABET, Inc. (http://www.abet.org)

Counseling Psychology (PhD): American Psychological Association (APA) (http://www.apa.org)

Dental Hygiene (BS): Commission on Dental Accreditation of the American Dental Association (CODA) (http://www.ada.org/en/coda)

Dentistry (C, MSD, DMD): Commission on Dental Accreditation of the American Dental Association (CODA) (http://www.ada.org/en/coda)


Engineering (BS and MEng): Engineering Accreditation Commission of ABET, Inc. (http://www.abet.org)
(Bioengineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, Computer Engineering and Computer Science programs)

Exercise Physiology (MS)/Exercise Science (BS): Committee on Accreditation for the Exercise Sciences (CoAES) (http://www.coaes.org)

Family Therapy (MSSW): Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) (http://www.aamft.org/MIS15/About/About_COAMFTE/Content/COAMFTE/COAMFTE.aspx)

Interior Design (BA): Council for Interior Design Accreditation (CIDA) (http://accredit-id.org)

Law: Section of Legal Education and Admissions to the Bar of the American Bar Association (ABA) (http://www.americanbar.org/aba.html), Association of American Law Schools (AALS) (http://www.aals.org)

Medicine (MD): Liaison Committee on Medical Education, a Joint Committee of the American Medical Association and the Association of American Medical Colleges (LCME) (http://lcme.org)


Music Therapy (BM): National Association of Schools of Music (NASM) (http://nasm.arts-accredit.org)

Nursing (BSN, MSN, PhD): Commission on Collegiate Nursing Education (CCNE) (http://www.aacn.nche.edu/ccne-accreditation)

Paralegal Studies (AA): Section on Paralegal Education of the American Bar Association (ABA) (http://apps.americanbar.org/legalservices/paralegals/directory)

Public Administration (MPA): National Association of Schools of Public Affairs and Administration (NASPAA) (http://www.naspaa.org)

Public Health (C, MS, MPH, PhD): Council on Education for Public Health (CEPH) (http://ceph.org)

School Counseling (MEd): Council for Accreditation of Counseling and Related Educational Programs (CACREP) (http://www.cacrep.org)


Speech-Language Pathology (MS): Council on Academic Accreditation in Audiology and Speech-Language Pathology (http://caa.asha.org)

Sport Administration (BS, MS): Commission on Sports Management Accreditation (COSMA) (http://www.cosmaweb.org)
Theatre Arts (BS, MFA): National Association of Schools of Theatre (NAST) (https://www.arts-accredit.org)

Urban Planning (MUP): Planning Accreditation Board (PAB) (http:// www.planningaccreditationboard.org)

Other Accreditation/Recognition


Clinical Chemistry (post-doctoral): Commission on Accreditation in Clinical Chemistry (COMACC) (http://www.comacc.org/Pages/default.html)

Cooperative Education (Speed School): American Council for Cooperative Education (ACCE)

Continuing Medical Education: Accreditation Council for Continuing Medical Education (AACME) (http://www.accme.org)

Counseling Center: International Association of Counseling Services (IACS) (http://www.iacsinc.org)

Early Learning Center: National Association for the Education of Young Children (NAEYC) (http://www.naeyc.org)

Fort Knox Education Center: Military Installation Education Review (2009)

Graduate Medicine (House Staff): Accreditation Council for Graduate Medical Education (ACGME) (https://www.acgme.org/acgmeweb)

Human Subjects Protection Program: Association for the Accreditation of Human Research Protection Programs, Inc. (AAHRPP) (http://www.aahrpp.org)

Research Resource Center: Association for Assessment and Accreditation of Laboratory Animal Care, International (AAALAC) (http://www.aaalac.org)

Resources for Academic Achievement (REACH) Tutor Training: College Reading & Learning Association (CRLA), International Tutor Training Program Certification (ITTPC) (https://www.crla.net/index.php/certifications/ittpc-international-tutor-training-program)

Strength Conditioning-Exercise Science (BS)/Exercise Physiology (MS): National Strength and Conditioning Association (http://www.nsca.com)

necessitate the restriction of certain programs in certain states. Please note that should you choose to enroll in a restricted program in a particular state, there may be restrictions that could affect you.

Examples could include:

- You may be unable to sit for local licensing in that state
- You may be ineligible for consumer protection in that state
- You may not be able to complete field placements (practicum, internship, clerkship, etc.) in that state. This could affect licensure or recognition of the degree to meet particular requirements in that state.

Therefore, if you decide to enroll in any of the University of Louisville’s restricted programs, or if you move during the course of your studies to a state where your program is restricted, please be aware that you are taking a risk that you may not be able to complete that program or use any of the credit earned in that program should you decide to pursue licensing in that field in that state. Please note that the risks listed above are not exhaustive. Please verify with your state’s professional licensing board that your plans are not impacted by these risks before enrolling in an online program.

For more information on online program availability in your state, please visit louisville.edu/online/About-Us/state-authorization-regulations.

For important consumer disclosures relating to such issues as professional licensure, please visit louisville.edu/online/About-Us/state-authorization-disclosures.

For more information and disclosures, please visit louisville.edu/online/About-Us/state-authorization-regulations.

Leadership

Dr. Neeli Bendapudi, President, University of Louisville

Board of Trustees

In accordance with the statutory authority of the Commonwealth of Kentucky, the Board of Trustees of the University of Louisville exercises final jurisdiction over the university. It selects the President of the university; upon recommendation of the President, it makes all appointments to the faculty and all appointments of individuals in administrative capacities who serve at the pleasure of the Board.

The Board of Trustees adopts a budget annually for the ensuing year and grants all degrees conferred by the university.

Leadership
More information on the Board of Trustees, including current membership can be found at the Board of Trustees website (http://louisville.edu/president/board-of-trustees).

**University of Louisville**

**History of the University**

The University of Louisville can trace its history back to the establishment of the Jefferson Seminary in 1798.

During the early 19th century, the growing importance of water transportation, coupled with a strategic location at the falls of the Ohio River, made Louisville a commercial hub for the South and West. As the city's population and economy advanced, so did its institutions. In 1837 the Louisville Medical Institute opened for its first class, and the next year, the city created the Louisville Collegiate Institute. The two schools had no official connection, but they both manifested the city's dream of intellectual as well as mercantile leadership. In 1844 the Collegiate Institute inherited property from the now-defunct Seminary.

The Louisville Medical Institute attracted large enrollments and prospered financially, but the Collegiate Institute struggled to remain open. Proponents of grassroots democracy wanted to combine the schools and divert a portion of the medical school's resources to the college. They won a partial victory in 1846 when the General Assembly merged the Medical and Collegiate Institutes as the University of Louisville, but the new charter offered complete vindication to neither interest. It created a common board of trustees, but each division retained financial autonomy. The medical school continued to prosper, but as the liberal arts division struggled and failed to remain open, the newly added law school brought in a respectable number of students.

Most of the professors in the medical and law schools were drawn from the ranks of local physicians and attorneys who considered teaching a part-time vocation. By the 1880s and 1890s, however, the University felt some pressure from the educational reformers who not only believed schools should employ full-time instructors, but also advocated for well-enforced, national standards for academic training. In 1907, this trend contributed to the revival of the College of Arts and Sciences, which had been all but forgotten for most of the 19th century. As the university added new programs such as the Graduate School (1915), School of Dentistry (1918), Speed Scientific School (1925), Louisville Municipal College (1931), School of Music (1932), and Kent School of Social Work (1936), conformity to accreditation guidelines became increasingly important. Expanded academic programs and the adherence to higher educational standards led to the appointment of full-time administrators early in the 20th century.

World War II and the postwar era brought major changes to the University of Louisville. Shortly after the war, a movement began to close the all-black Louisville Municipal College and desegregate the University on all levels. This was accomplished in 1950 and 1951. The School of Business was established in 1953. Perhaps the most dramatic development of the postwar period was the movement of taxing citizens from the city to
the suburbs. Since the University of Louisville was municipally-funded, this caused a damaging drain on the school's revenue. As early as 1965, a governor’s task force suggested the possibility of the University of Louisville joining the state system of higher education, which it did in 1970.

Another major development occurred in 1994, when the Kentucky Council on Postsecondary Education designated University of Louisville as a research university, assigning it a statewide mission in medicine, dentistry, law and urban affairs.

In 1997, the state legislature revised the university’s mission statement. University of Louisville was charged with becoming a “premier, nationally recognized metropolitan research university.” The state also established the Research Challenge Trust Fund, which pumped more than $118 million into research at University of Louisville, helping the university attract and retain a number of nationally recognized researchers and their teams. The fund, also known as “Bucks for Brains,” has helped University of Louisville attract almost $400 million in extramural funding, created 1,500 new jobs and had an economic impact of almost $850 million.

One of the oldest metropolitan universities in the United States, University of Louisville has a long history of dedication to the needs of the Louisville urban area. In 2007, the university reaffirmed that mission through implementation of its Signature Partnership initiative, which formalizes its commitment to improving the lives of residents of some of Louisville's most disadvantaged neighborhoods. University of Louisville faculty, staff and students now support the city through hundreds of programs and partnerships in the areas of health, economic development, education and social and human services.

## Academic Calendar

<table>
<thead>
<tr>
<th></th>
<th>Summer 2018 Term I</th>
<th>Summer 2018 Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes start</td>
<td>May 7</td>
<td>May 29</td>
</tr>
<tr>
<td>Last day to drop/add</td>
<td>May 8</td>
<td>May 31</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>May 17</td>
<td>June 6</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>May 25</td>
<td>June 18</td>
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<td>Degree date</td>
<td>Aug. 7</td>
<td></td>
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<tr>
<td>Last day of classes/degree date</td>
<td></td>
<td></td>
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<td>Degree date</td>
<td>Aug. 7</td>
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<table>
<thead>
<tr>
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<th>Summer 2018 Ten-Week Term</th>
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<td>Classes start</td>
<td>May 29</td>
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<tr>
<td>Last day to drop/add</td>
<td>June 1</td>
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<tr>
<td>Independence Day holiday</td>
<td>July 4</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>July 10</td>
</tr>
<tr>
<td>Last day of classes/degree date</td>
<td></td>
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<tr>
<td>Degree date</td>
<td>Aug. 7</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>Summer 2018 Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes start</td>
<td>July 3</td>
</tr>
<tr>
<td>Independence Day Holiday</td>
<td>July 4</td>
</tr>
<tr>
<td>Last day to drop/add</td>
<td>July 6</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>July 24</td>
</tr>
<tr>
<td>Last day of classes/degree date</td>
<td></td>
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<tr>
<td>Degree date</td>
<td>Aug. 7</td>
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<table>
<thead>
<tr>
<th></th>
<th>Speed Summer 2018 Term</th>
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<tbody>
<tr>
<td>Classes start</td>
<td>May 14</td>
</tr>
<tr>
<td>Last day to drop/add</td>
<td>May 17</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>May 28</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>June 22</td>
</tr>
<tr>
<td>Independence Day holiday</td>
<td>July 4</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>July 20</td>
</tr>
<tr>
<td>Final exam period</td>
<td>July 23-26</td>
</tr>
<tr>
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<td>Aug. 7</td>
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<table>
<thead>
<tr>
<th></th>
<th>Kent Summer 2018 Term</th>
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<tbody>
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<tr>
<td>Last day to drop/add</td>
<td>May 11</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>May 28</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>June 20</td>
</tr>
<tr>
<td>Independence Day holiday</td>
<td>July 4</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>July 21</td>
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<td>Degree date</td>
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<thead>
<tr>
<th></th>
<th>Nursing Summer 2018 Term</th>
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<tbody>
<tr>
<td>Classes start</td>
<td>May 16</td>
</tr>
<tr>
<td>Last day to drop/add</td>
<td>May 21</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>May 28</td>
</tr>
<tr>
<td>Independence Day holiday</td>
<td>July 4</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>June 26</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>July 24</td>
</tr>
<tr>
<td>Degree Date</td>
<td>August 7</td>
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Fall 2018

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Classes start</td>
<td>August 20</td>
<td>Monday</td>
</tr>
<tr>
<td>Last day to add/drop a course</td>
<td>August 24</td>
<td>Friday</td>
</tr>
<tr>
<td>Labor Day holiday</td>
<td>September 3</td>
<td>Monday</td>
</tr>
<tr>
<td>Mid-Term Break</td>
<td>October 8-9</td>
<td>Monday, Tuesday</td>
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<tr>
<td>Last day to withdraw</td>
<td>October 19</td>
<td>Friday</td>
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<tr>
<td>Thanksgiving holiday</td>
<td>Nov. 21-25</td>
<td>Wednesday-Sunday</td>
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<tr>
<td>Last day of classes</td>
<td>December 3</td>
<td>Monday</td>
</tr>
<tr>
<td>Reading day</td>
<td>December 4</td>
<td>Tuesday</td>
</tr>
<tr>
<td>Final examinations</td>
<td>December 5-11</td>
<td>Wednesday - Tuesday</td>
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<tr>
<td>Degree date</td>
<td>December 11</td>
<td>Tuesday</td>
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<tr>
<td>December commencement</td>
<td>December 14</td>
<td>Friday</td>
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Winter 2018

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Day</th>
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</thead>
<tbody>
<tr>
<td>Classes Start</td>
<td>December 12</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Last day to drop/add</td>
<td>December 13</td>
<td>Thursday</td>
</tr>
<tr>
<td>Last day to Withdraw</td>
<td>December 21</td>
<td>Friday</td>
</tr>
<tr>
<td>Christmas Holiday</td>
<td>December 25</td>
<td>Tuesday</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>January 3</td>
<td>Thursday</td>
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Spring 2019

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes start</td>
<td>January 7</td>
<td>Monday</td>
</tr>
<tr>
<td>last day to add/drop a course</td>
<td>January 11</td>
<td>Friday</td>
</tr>
<tr>
<td>Martin Luther King, Jr. holiday</td>
<td>January 21</td>
<td>Monday</td>
</tr>
<tr>
<td>Last day to withdraw</td>
<td>March 6</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Spring break</td>
<td>March 11-17</td>
<td>Monday-Sunday</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>April 22</td>
<td>Monday</td>
</tr>
<tr>
<td>Reading day</td>
<td>April 23</td>
<td>Tuesday</td>
</tr>
<tr>
<td>Final examinations</td>
<td>April 24-30</td>
<td>Wednesday-Tuesday</td>
</tr>
<tr>
<td>Degree date</td>
<td>May 11</td>
<td>Saturday</td>
</tr>
<tr>
<td>May Commencement</td>
<td>May 11</td>
<td>Saturday (Date is tentative)</td>
</tr>
</tbody>
</table>

The University reserves the right to change the announced academic calendar without prior notice.

Academic Freedom

Academic institutions in a democratic society exist for the pursuit of truth, the development and conservation of knowledge, the transmission of learning, and the enhancement of the general well-being of such society. Free inquiry and free expression are indispensable to the attainment of these goals. The University of Louisville is, therefore, committed to protecting the academic freedom of all members of the University community.

Freedom to learn and freedom to teach are inseparable facets of academic freedom. Students have a right to their own views on matters of opinion, rather than fact, and a right to express those views in appropriate ways without fear of arbitrary reaction or improper disclosure of such opinions outside the classroom.

Teachers are entitled to full freedom in research, publication, academic evaluation, and classroom expression. Academic freedom carries the corresponding responsibilities to be thoroughly prepared and well informed in their fields of knowledge and to be scrupulous in distinguishing between personal and professional judgments and between fact and opinion.

Membership in the academic community imposes on students, faculty, staff, administrators, and trustees of the University an obligation to adhere to standards of academic honesty, to respect the dignity of others, to acknowledge their right to express differing opinions, and to foster and defend intellectual honesty, freedom of inquiry and instruction, and free expression both on and off the campus.

Policy on Work-Restricted Religious Holy Days

Federal law and university policy (p. 88) prohibit discrimination on the basis of religious belief. It is the policy of the University of Louisville to accommodate students, faculty, and staff who observe religious work-restricted holy days. Students who observe work-restricted religious holy days must be allowed to do so without jeopardizing their academic standing in any course. Faculty are obliged to accommodate students’ request(s) for adjustments in coursework on the grounds of religious observance, provided that the student(s) make such request(s) in writing during the first two (2) weeks of term.

A calendar of typical work-restricted holy days is available through the Office of Diversity (http://louisville.edu/provost/diversity/policies.html). Information about specific holidays is also available by phone from the Office of the Provost at (502) 852-6153.

Source: University of Louisville Redbook, Section 2.5.1, approved July 1979.

Americans with Disabilities Act

Americans with Disabilities Act
Americans with Disabilities Act

The University of Louisville is committed to providing equal opportunity for persons with disabilities. This commitment includes complying with the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973.

In addition, all of the University’s websites and online courses will comply with the webpage design standards established by the World Wide Web Consortium (W3C). The University of Louisville strives to maintain a barrier-free, welcoming environment for all qualified persons with disabilities.

The university’s ADA Coordinator, oversees the University’s compliance with the ADA and Section 504, and assists unit heads in meeting their equal opportunity obligations. The ADA coordinator is locate in the Dean of Students suite in the SAC:

ADA Coordinator
Brian Bigelow
SAC-W301
(502) 852-5787

The Disability Resource Center staff (502 852-6938) will assist the University community by serving as an information resource center and coordinating support services for students with disabilities. No otherwise qualified individual with a disability shall, solely by reason of such disability, be excluded from participation in, be denied benefits of, or be subjected to discrimination in university programs. The President, Board of Trustees, Student Government, Faculty and Staff Senates affirm UofL’s long standing and continuing commitment to Equal Opportunity for persons with disabilities.

Formal Student ADA Complaint Procedure

The university has a continuing responsibility to monitor and maintain its compliance with the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973 (Section 504) and their implementing regulations. Internal student complaints alleging non-compliance with the ADA and/or Section 504 should follow the following procedure.

The university’s formal complaint procedure provides for prompt and equitable resolution of complaints.

Complaints should be directed to the UofL ADA Coordinator, Brian Bigelow, (502) 852-8757, or brian.bigelow@louisville.edu

Filing a formal complaint of disability discrimination

A complaint must be filed in writing with the Coordinator. The complaint should contain the name and address of the person filing it and a brief description of the alleged violation. Upon receipt of the written complaint, the Coordinator or his designee shall acknowledge receipt within five workdays.

A complaint should be filed within 180 days after the complainant becomes aware of the alleged violation; however, a complaint filed after that point may be investigated in accordance with this procedure as necessary, in the judgment of the ADA Coordinator, to ensure the university’s compliance with the ADA and/or Section 504.

An investigation, as may be appropriate, shall follow a filing of complaint. The Coordinator’s office shall conduct the investigation. This University complaint procedure involves an informal but thorough investigation, affording all interested persons and their representatives, if any, an opportunity to submit information relevant to a complaint. The Coordinator will complete the investigation within 45 days of the receipt of the complaint wherever practicable.

Following completion of the investigation, a written determination as to the validity of the complaint and a description of the resolution, if any, shall be issued by the Coordinator’s office and a copy forwarded to the complainant and any individually-named respondent within 60 days of the date the complaint was filed. Should extenuating circumstances (e.g., unavailability of key witnesses, family emergency of investigative staff, etc.) prevent completion of the investigation and determination process within 60 days, the complainant and any individually-named respondents will be timely notified in writing, and will be kept apprised of the status of the Coordinator’s handling of the complaint through resolution.

An Internal ADA complaint does not preclude other remedies.

The right of a person to a prompt and equitable resolution of the complaint filed hereunder shall not be impaired by the person’s pursuit of other remedies such as the filing of a discrimination complaint with the responsible federal department or agency. Use of this complaint procedure is not a prerequisite to the pursuit of other remedies, nor does one’s pursuit of outside remedies preclude one’s filing a complaint pursuant to this procedure.

These rules shall be construed to protect interested persons, to meet appropriate due process standards, and to assure that the university complies with the ADA, Section 504, and their implementing regulations.

Requests for reconsideration must present information showing that:

• The original determination applied the incorrect standard or applied the applicable standard incorrectly to the facts of the case; or
• New information that might affect the outcome of the determination but was not available to the Coordinator at the time of the original determination is now available and should be considered.

The Coordinator shall, barring extenuating circumstances that preclude a more timely response (in which case the complainant shall be updated as to the status of the reconsideration request), rule upon the request for reconsideration within 15 workdays after receipt of the request.
Drug-Free Schools and Campuses


Purpose and Goal
The University of Louisville is committed to protecting the safety, health and wellbeing of all students, faculty, and staff and other individuals in our workplace. As a recipient of federal grants and contracts, the university gives this notice to students, faculty, and staff that it is in compliance with the Drug-Free Workplace Act of 1988 (Pub. L. 100-690, Title V Subtitle D) and the Drug-Free Schools and Communities Act Amendment of 1989. Students, faculty and staff are herein notified of the standards of conduct that will be applicable while on university property, business, and/or at university-sponsored activities. This policy is incorporated and is a part of the official University of Louisville Policies and Procedures.

This policy recognizes that student, faculty, and staff involvement with alcohol and other drugs can be very disruptive, adversely affect the quality of work or academic performance of student, faculty, and staff, pose serious health risks to users and others, and have a negative impact on productivity and morale.

As a condition of employment or enrollment, the university requires that students, faculty, and staff adhere to a strict policy regarding the use and possession of drugs and alcohol. The university encourages students, faculty, and staff to voluntarily seek help with drug and alcohol problems.

Prohibited Behaviors
Under university regulations, federal law, state law, and, in some instances, local ordinance, students, faculty, and staff are prohibited from the unlawful possession, use, dispensation, distribution, or manufacture of illicit drugs on university property, on university business and/or at university-sponsored activities. Under this policy, students, faculty and staff are required to abide by state laws concerning alcoholic beverages.

Kentucky law (KRS 244.085: lrc.ky.gov/statutes/statute.aspx?id=45137 (http://www.lrc.ky.gov/statutes/statute.aspx?id=45137)) states that, if one is under the age of 21, it is unlawful to:

- Possess or consume alcoholic beverages,
- Misrepresent one's age for the purpose of purchasing alcoholic beverages, or
- Use a fake ID in an attempt to purchase alcoholic beverages.

It is unlawful for anyone of any age to:

- Procure any alcoholic beverages for anyone under 21 years of age,
- Drink or be intoxicated in a public place


University campuses and buildings are considered as public places for purposes of these laws, except for a facility licensed to serve alcoholic beverages, and a facility used as a private residence, unless university regulations state otherwise. Ordinances of the Greater Louisville area parallel the state laws.

The specifically defined standards of conduct, the disciplinary procedures, and the appropriate sanctions are detailed in the Code of Student Conduct (p. 87), Personnel Policies and Procedures (PER-5.01), Staff Handbook (Disciplinary Action, page 8.2) and The Redbook.

In addition, it is a violation of state law to operate a motor vehicle while under the influence of any substance that may impair one's driving ability (drugs or alcoholic beverages).

Prescription and over-the-counter drugs are not prohibited when taken in standard dosage and/or according to a physician's prescription. Any student, faculty, and staff taking prescribed or over-the-counter medications will be responsible for consulting the prescribing physician and/or pharmacist to ascertain whether the medication may interfere with job or academic performance.

The illegal or unauthorized use of prescription drugs is prohibited. It is a violation of our drug-free workplace to intentionally misuse and/or abuse prescription medications. Appropriate disciplinary action will be taken if job or academic performance deterioration and/or other accidents occur.

Consequences for Violating This Policy
Under university regulation, students who violate this standard of conduct are subject to student conduct action from a warning to expulsion from the University. Students who reside in university housing are subject to further conduct action that may vary from a warning to termination of their housing contract.

Notice of Drug-Related Conviction
In compliance with the Federal Drug-Free Workplace Act of 1988, any employee shall notify the immediate supervisor if the employee is convicted of a criminal drug offense occurring in the workplace or while on university business within five days of the conviction. The university shall take appropriate sanction and remedies in accordance within its policies. The provisions of this section are applicable to students who are employees of the university. If the employee is under a federal contract or grant, the university shall notify the contracting or granting agency of the conviction and of its actions. This section of this policy is also applicable to students who receive a Pell grant (federal grant).

Health Risks
The scope and impact of health risks from alcohol and drug use are both alarming and well documented, ranging from mood-altering to life-threatening, with consequences that extend beyond the individual to family, organizations and society at large. The university, therefore, conducts regular programs to educate its students, faculty, and staff that consumption and use of drugs may alter behavior, distort perception,
impact thinking, impede judgment, and lead to physical or psychological dependence.

Alcohol and/or drug use may lead to the deterioration of physical health by causing or contributing to various health conditions including but not limited to fatigue, nausea, personal injury, insomnia, pathological organ damage, some forms of cancer, pancreatitis, heart attack, respiratory depression, birth defects, convulsions, coma, and even death. Alcohol and drug use may also result in deterioration of mental health by causing or contributing to various conditions such as increased aggression, hallucinations, depression, disorientation, and psychosis.

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increases the incidence of a variety of aggressive acts, including spouse and child abuse.

Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person’s ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described. Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and intellectual disabilities. In addition, research indicates that children of alcoholic parents are at greater risk than other children of becoming alcoholics.

Training, Counseling, and Resources
The University of Louisville is committed to the overall health and well-being of students, faculty, and staff and encourages a compassionate university.

AlcoholEdu and Haven online prevention programs
AlcoholEdu alcohol prevention program and Haven sexual violence prevention program serve as starting points for ongoing campus prevention efforts. Every incoming undergraduate student is required to take AlcoholEdu (up to age 21) and Haven (all ages). Emails are sent to their UofL email account (beginning about 5 weeks before their first semester begins) to provide specific directions for logging on to AlcoholEdu and Haven. AlcoholEdu and Haven are two separate programs, each with two parts. There is no fee for either program.

Visit louisville.edu/campushealth/alcoholedu-haven for more information.

Kentucky Medical Amnesty Law
KRS 244.992 Medical amnesty for persons reporting an alcohol overdose:

1. Requests emergency medical assistance for himself or herself or another person;
2. Acts in concert with another person who requests emergency medical assistance; or
3. Appears to be in need of emergency medical assistance and is the individual for whom the request is made.

Visit louisville.edu/campushealth/alcoholedu-haven for more information.

1. Requests emergency medical assistance for himself or herself or another person;
2. Acts in concert with another person who requests emergency medical assistance; or
3. Appears to be in need of emergency medical assistance and is the individual for whom the request is made.

Good Samaritan Consideration
The health and safety of our students is of the highest priority. At times, students may need immediate medical or other professional assistance. However, students may be reluctant to get help because of concerns that their own behavior may be a violation of the Code of Student Conduct (p. 87). Although policy violations cannot be overlooked, the University will consider the positive impact of reporting an incident when determining the appropriate response for policy violations.

Continuous efforts are made to make students, faculty, and staff aware of programs that provide information and professional services on matters related to the abuse of alcohol and drugs.

The Building Resilience In Campus Community (BRICC) Coalition, Counseling Center, Health Promotion Office, The PEACC Center, and the University of Louisville Police Department provide a number of programs and workshops using a tiered approach: a) primary prevention in the form of awareness, skill-building, and risk-reduction for all students and b) targeted presentations for specific high-risk populations.

The University Counseling Center is committed to assisting students with their mental health, personal development, and academic development. Because substance use is often connected to other personal/psychological issues, students coming to the Counseling Center with alcohol and substance use concerns are provided with support, appropriate therapeutic interventions, and referrals when necessary.

- Building Resilience in Campus Community (BRICC) Coalition: (502) 852-3442; louisville.edu/bricc
- Campus Health Services: (502) 852-6479; louisville.edu/campushealth
- Counseling Center: (502) 852-6585; louisville.edu/counseling
- Health Promotion Office: (502) 852-5429; louisville.edu/healthpromotion
- The PEACC Center: (502) 852-2663; louisville.edu/peacc
- University of Louisville Police Department: (502) 852-7233; louisville.edu/police

Finally, the University of Louisville Police Department: (502) 852-7233; louisville.edu/police

The crux of our medical system is the person:
Admission Standards

The University of Louisville subscribes to a selective admission policy. Admission for freshman applicants is based on:

1. High school grades,
2. ACT or SAT scores, and
3. Successful completion of the required pre-college curriculum.

Enrollment in the freshman class is limited. Within the limits of space availability, the University will endeavor to accommodate all eligible applicants. However, the number of freshman applications exceeds the number of spaces available in the entering class. For this reason, the selective and competitive admission requirements may exceed the minimum eligibility requirement.

The University of Louisville's minimum eligibility admission policy requires any applicant to have graduated from an accredited high school or received a high school equivalency certificate, have completed the pre-college curriculum, possess a grade point average (GPA) of 2.5, and have achieved at least one of the following:

- The applicant has earned a composite ACT score of not less than 20 or an SAT-I score of not or less than 940 (CR+M); or
- The applicant has completed the UofL enhanced pre-college curriculum (PCC) with a minimum GPA of 2.5 on a 4.0 scale. The enhanced PCC consists of an additional two pre-college courses in mathematics, social studies, or science. These two courses may be taken in any combination within the three disciplines. The courses must be at or above the level of prescribed PCC; or
- The applicant ranks in the top 15% of the applicant's high school graduating class upon completing seven or eight semesters in high school.

Freshman applicants who do not meet the selection requirements may have their admission decisions deferred. Admission will be offered first to those applicants with the strongest records and offers will continue until the class is filled. Some factors that are considered during this review are: number and scope of college preparatory, honors and AP classes; strength of senior year schedule; and evidence of marked improvement over time in applicant's academic career. The overriding concern will always be for the student's potential to be successful in meeting the academic expectations at the University.

Students should refer to the individual academic unit admission policies, included in this catalog, for additional admission requirements. Students should be cautioned about the distinction between undergraduate and graduate classifications when applying for admission to the University. For fee purposes, determination of “undergraduate” or “graduate” is based on the school or enrollment unit to which a student is admitted, and not on the level of courses taken.

Minimum Admission Standards for Public Universities in Kentucky (Pre-College Curriculum)

Students who enter one of Kentucky's public universities are required to have completed high school or high school equivalency certificate, and the pre-college curriculum (PCC). These are minimum standards and each university may require additional preparation of its students. The pre-college curriculum is a total of 22 approved units or courses including four units of English, three units of social studies, three units of mathematics (algebra I and II and geometry), two units of foreign language (same language), one half unit of physical education and health, one unit of history and appreciation of visual, performing arts, and 5 credits (3 rigorous) electives.

Students who are non-resident, 21 years of age or older or international are exempt from the PCC requirements.

The University may grant admission by exception to a limited number of the applicants admitted as first-time freshmen. Students admitted by exception will be required to enroll in courses to immediately remedy pre-college curriculum deficiencies.

Additional information and the definition of approved units is available from the Office of Admissions or from guidance counselors or principals in Kentucky high schools.

Applying for Admission

Listed below are the admissions procedures for the various populations and classifications of students.

All admissions credentials for undergraduate students should be mailed to this address:

Office of Admissions
Department-AO
University of Louisville
Louisville, KY 40292

Entering Freshman Students

Application deadlines are as follows:

- Fall Term: February 15
- Spring Term: November 1
- Summer Term: April 1

First-time freshmen applications and credentials received after the application deadlines listed above will be reviewed on a space available basis.

Students who have never attended any college should seek admission by the following steps:

1. Submit the application online at louisville.edu/admissions/apply.
2. Pay the application fee (payable by credit card or electronic check).
3. Mail the university a copy of the high school transcript.
4. Request that test scores from ACT (the American College Testing Program) or SAT (College Board) be sent to the university if they are not posted on the high school transcript. Students will be notified of their admissibility to the university after receipt of this information.

**Early Admissions**

Students who apply for admission as a regular student, but do not plan to graduate from high school prior to enrolling in college, are considered early admissions applicants. In addition to submitting an application, high school transcript and ACT or SAT scores, early admissions applicants must submit a statement of motivation for beginning college prior to high school graduation, a letter of recommendation from their high school counselor, and a letter of endorsement from their parent/guardian. Early admissions applicants must also complete an interview with an admissions counselor.

**Transfer Students**

Transfer students are encouraged to apply earlier to allow ample time for evaluation of transcripts, advising, orientation, and registration.

Application Deadline: Transfer applications received at least six weeks prior to the beginning of a term will be given priority. Students transferring from another institution should take the following steps in seeking admission to the university:

1. Submit the application online at louisville.edu/admissions/apply and pay the application fee (payable by credit card or electronic check).
2. Request that the registrar of each institution previously attended forward to the university an official transcript of all work completed or in progress. Failure to declare previous attendance at another institution may result in disciplinary action.
3. Students transferring with fewer than 24 transferable semester hours are required to take the ACT or SAT test if they have not done so previously, and submit a high school transcript. Students with fewer than 24 transferable semester hours must meet the admissions requirements for both new freshmen and transfer students.

All transfer students to the University of Louisville are required to participate in the Transfer Orientation Program. There is a fee for the Transfer Program.

For further Orientation Program information, go to louisville.edu/newcards.

**Evaluation of Transfer Credit**

For admission as a transfer student, applicants must submit official transcripts from all regionally accredited post-secondary institutions previously attended. The University of Louisville will determine a transfer GPA based upon the coursework completed at previous institutions. The University of Louisville does not transfer in technical or developmental coursework. Courses completed on a quarter system (or another system not based on semester hours) will be converted to semester hours. A student is required to complete 30 of his/her last 36 semester hours at the University of Louisville.

Official transcripts showing all undergraduate work and degrees awarded at every regionally accredited college/university previously attended must be furnished by the degree-seeking applicant. Credits earned at another regionally accredited institution of higher education may be transferred to the University of Louisville. The Transfer Credit Practices report published by the American Association of Collegiate Registrars and Admissions Officers (AACRAO) will be the reference used for the evaluation of such credits.

Regional accrediting agencies include: Middle States Association of Colleges and Schools (MSA), North Central Association of Colleges and Schools (NCA-HLC), Northwest Commission on Colleges and Universities (NWCCU), New England Association of Schools and Colleges (NEASC-CIHE), Southern Association of Colleges and Schools (SACS), The Western Association of Schools and Colleges (WASC-ACSCU), and The Western Association of Schools and Colleges – Community and Junior Colleges (WASC-ACCJC).

Applicants with transfer credit from non-regionally accredited institutions may be considered for credit by petitioning for recognition of that credit. Applicants may petition for non-regionally accredited credit by completing the Undergraduate Transfer Credit Appeal Form form (http://louisville.edu/admissions/apply/transfer/services/course-credit/undergraduate-transfer-credit-appeal-form).

Undergraduate applicants who have attended post-secondary schools, colleges, universities, or professional institutions outside the United States must submit their academic records to Educational Credentials Evaluators, Inc. (ECE) or World Education Services, Inc. (WES) for a course-by-course evaluation. It is the applicant’s responsibility to submit credentials to ECE or WES and to pay all charges for the evaluation. Only evaluations submitted directly from ECE or WES are accepted.

**ULTRA: The University of Louisville Transfer Program**

The ULTRA program (http://louisville.edu/ultra) combines the commitment and resources of the University of Louisville (UofL), Jefferson Community and Technical Colleges (JCTC), the Kentucky Community and Technical College System (KCTCS) and Jefferson County Public Schools (JCPSC) so that all Kentucky students have access to a baccalaureate degree.

ULTRA is a service for students who choose, or who are advised by UofL Admissions, to begin their academic career at JCTC (or any KCTCS institution) before transferring to UofL to complete a Bachelor’s degree. These students are encouraged to complete an Associates’ degree before transfer, but may transfer after completing 24 college credit hours with a minimum cumulative GPA of 2.0 (GPA requirements for some degree programs may be higher). ULTRA is located on the JCTC campuses and provides transfer-specific advising and admissions for UofL degree programs, connections to UofL, mentoring and assistance with the transfer process. Students interested in ULTRA can learn more about programs, transfer coursework and opportunities by visiting louisville.edu/ultra or by calling (502) 213-4538.

JCTC and UofL also work collaboratively to address the needs of students who are admitted to UofL in good standing but who need some developmental coursework.

For more information, please contact:

**Tawana McWhorter**
Jefferson Education Center, Suite 900
200 West Broadway
Louisville, KY 40202
(502) 213-2541
ultra@louisville.edu
Re-enrolling Students

If a student has a break in enrollment of two or more calendar years, that student must apply for readmission to an enrollment unit, and if admitted, will be subject to catalog requirements in effect at the time of readmission. Students who were not enrolled during the immediate past semester, but were enrolled within the last two calendar years, and who wish to continue in the school and program in which they were last registered are eligible to re-enroll. They need to complete the request to re-enroll form at the advising center of their academic unit or at the Registrar’s Office. Students completing the re-enrollment process are eligible for early registration for the term in which they wish to return. Students whose last enrollment status was visitor, high school visitor, suspended or who were dismissed, must reapply. Students last enrolled in University College, Allied Health or Transitional Studies must also reapply through the Office of Admissions since these units are no longer in existence.

Visitors

Visiting students are those individuals who are pursuing a degree from another institution, but who plan to enroll at the University of Louisville for one semester. Submit the application online at louisville.edu/admissions/apply and pay the application fee (payable by credit card or electronic check) for each semester you plan to attend.

Applicants to the Speed School of Engineering or College of Business must also include transcripts.

High School Visitors

A senior student who is presently enrolled in high school and who wants to take one or more college courses prior to graduating from high school will be considered a high school visitor. These students must submit an application, application fee, high school transcript, test scores (ACT, PSAT, or SAT), and a letter of recommendation from their high school counselor. Students who have not completed the first part of their junior year should contact the Office of Admissions for information concerning additional requirements for admission.

International Student Applicants

There are essentially three areas of concern for international applicants. They are:

1. Successful completion of a strong, quality academic program.
2. Proficiency in the English language.
3. Ability to demonstrate financial resources.

Students who are not U.S. citizens or immigrants will need to submit an admissions application to the Office of Admissions and financial documents to the International Center. The application provides information concerning the student’s academic background and educational goals. First-time freshmen applicants and transfer applicants with less than 24 hours are not required to submit ACT or SAT scores, unless applying to the School of Music or Speed School of Engineering. Applications should be received by the Office of Admissions well in advance of the desired enrollment date in order to allow adequate time for processing. International student applicants should refer to the following list of application priority deadlines:

- Fall Semester: May 1
  Term begins late August
- Spring Semester: November 1
  Term begins early January

When all required credentials have been submitted, the application will be reviewed by the Office of Admissions. Once an admissions decision has been made, the student will be notified.

International students applying to undergraduate programs will need to submit official transcripts of records from all secondary schools, universities, colleges, or professional schools attended. If official transcripts are not in English, you will also need to submit notarized English translations of your records. All post-secondary work must be submitted to Educational Credentials Evaluators, Inc. (ECE) or World Education Services, Inc. (WES) for a course-by-course evaluation. It is the applicant’s responsibility to pay all charges for the evaluation. An application for evaluation and a brochure describing ECE’s or WES’s procedures, services and fees is available upon request from the Office of Admissions.

Continuing Studies

Continuing Studies is a non-degree granting unit that admits adult students who want to take courses on a part-time basis for personal enrichment or professional development. Students can earn college credit, but are not admitted into a degree program. In order to be eligible to apply to Continuing Studies, students must be at least 22 years old and have a high school diploma or high school equivalency certificate issued by a state department of education.

Continuing Studies students may enroll for a maximum of 8 hours in any semester or summer session. Students are required to maintain a 2.0 grade point average. Continuing Studies students are not eligible to receive state or federal financial aid.

Students may remain in Continuing Studies until they accumulate 24 credit hours. Students with 24 credit hours must apply for admission and be accepted by a degree-granting unit of the University if they wish to continue their course work.

University Orientation Programs

All new freshmen to the University of Louisville are required to participate in the Summer Orientation program during the months of May, June and July. Orientation is a two-day overnight program where new students will have the opportunity to interact with other new and current students, meet with an academic advisor for one-on-one counseling and be introduced to faculty and staff from across campus. Information regarding summer orientation is sent via email in the March and April previous to your enrollment. Please note it is mandatory that new freshmen attend an orientation program. Students must register for summer orientation via the orientation website. There is a fee for summer orientation.

Students admitted as post-baccalaureates, visitors, readmits, or intra-university transfers are not required to attend an orientation program.

Post-Baccalaureate Admissions

Students who hold at least a bachelor’s degree and plan to enroll for undergraduate courses, but are not pursuing a second undergraduate degree are considered to be post-baccalaureate applicants. These students need to submit an official transcript certifying at least a bachelor’s degree, an application for admission and any applicable application fee.
Online Courses and Programs
Online learning at UofL provides convenient and flexible access to quality college education. You can earn a degree or certificate completely online or take online courses to supplement your current education and expand your horizons. You will experience the same high quality in an online course as you would on campus.

University of Louisville's online courses are delivered through a user-friendly online learning platform, Blackboard, that allows students and instructors to interact, network and collaborate on class assignments and team projects, exchange thoughts and ideas or share experiences.

Visit louisville.edu/online to learn more about our online programs. For a complete list of online courses available at UofL, visit hal.louisville.edu (select "Distance Education" in the location field). For current tuition rates for undergraduate and graduate online courses, visit louisville.edu/bursar (select "Tuition and Fees").

College Readiness Standards
Foreign Language Placement
The study of a foreign language is encouraged and required by some university majors. Students may choose to begin with the first semester in a new language or may choose to determine placement in language studies.

To determine placement, students may complete an online placement test in Spanish, French, German or Russian, available at all times (louisville.edu/modernlanguages/placement-exam). Language exams can be taken on any computer with an Internet connection.

The Office of Testing Services administers the placement tests for Latin only (louisville.edu/testing/foreign-language-placement).

First-time, first-year students must take a language exam before May 15 each academic year to register for a language course section during Freshman Summer Orientation. To receive course credit for foreign language, see the Extramural Examinations tab on the Alternative Coursework page (p. 59).

If a student has significant experience in a language other than Spanish, French, German, Russian or Latin, the student should contact the Department of Classical and Modern Languages for information on placement or exemption at (502) 852-6686. Information may also be found online at louisville.edu/modernlanguages/language-waivers/waiver-thought-testing.

Kentucky Administrative Regulation 13 KAR 2:02 (College Readiness Guidelines)
The Commonwealth of Kentucky has regulations for college readiness standards in writing, college reading, and mathematics. Admitted, degree-seeking students below 24 credit hours, and a GPA of at least a 2.00 on a 4.0 scale, who do not achieve the college readiness standards on the ACT sub-scores in writing, college reading, and mathematics or SAT equivalents or on the COMPASS or Next-Gen ACCUPLACER placement exams (reading and mathematics) are required by state mandate to complete interventions during their first college year.

Interventions may include the following:
- Enrollment in ENGL 101 and/or an appointment at the University Writing Center.
- GEN 105 which is a supplemented College Reading course linked to entry-level content courses.
- GEN 103 Supplemented, GEN 103 Regular, or GEN 104, or prerequisite JCTC Pathways developmental courses in mathematics (MAT 55).
- If students place into a JCTC Pathways mathematics course, they must continue to enroll each semester in mathematics and comply with the university's required sequence of courses including passing GEN 103 or GEN 104 before proceeding into a college-level mathematics course.
- Supplemented MATH 105 or Supplemented MATH 111.

College Writing Placement
The college readiness standard in writing is an ACT Writing sub-score of 18. Students with ACT Writing sub-scores below college readiness will register for ENGL 101 during their first college year.

If these students experience difficulty during ENGL 101, they will be encouraged to use the resources of the University Writing Center for supplemented support.

College Reading Placement
The state-wide, college readiness standard in college reading is an ACT Reading sub-score of 20. All first-year, degree-seeking students admitted with reading deficiencies are required to participate in placement testing and course registration as determined by their placement test results. Transfer students with 12 or more credit hours at the 100 level or above in general education courses with a 2.0 GPA are exempt from reading placement requirements.

Students with an ACT Reading sub-score of less than 20 (or an SAT Critical Reading score of less than 470) MUST take the Next-Gen ACCUPLACER exam. The exam serves as a second predictor of college reading readiness. Students who score less than 244 will be required to register for GEN 105 Special Topics in Supplemented College Reading. Advisors working with students are obliged to assist them in developing an individual schedule of classes that meets this state mandate and university requirement.

GEN 105 provides an intervention for college reading. Students who enroll in this course will receive 2 hours each week of supplemented instruction in college reading, critical thinking, and study strategies. Students receive 1 hour of college credit (elective credit only) for GEN 105. Students will receive 3 additional hours of college credit for successful completion of the general education course section in Biology, History, or Psychology linked to GEN 105.

Students enrolled in GEN 105 will attend the general education lecture course for 3 hours each week and will attend GEN 105 for 2 hours each week. Students will attend a total number of 5 hours of class each week for these linked courses.

Mathematics Placement
The college readiness standard in mathematics is an ACT Mathematics sub-score of 19. The university determines placement in all entry-level mathematics based on the highest ACT mathematics sub-score. If a student scores above an ACT Mathematics sub-score of 20 or higher, placement will be in a credit-bearing course.

Otherwise, the following sub-scores in mathematics determine placement:
- Students with ACT sub-score of 0–18 are required to complete the Next-Gen ACCUPLACER exam in mathematics. Placement
will result in Pathways MAT 55, GEN 103 (Supplemented or Regular), GEN 104, or an entry-level college mathematics course.

- Students with an ACT sub-score of 19–24, but less than the score required for a desired entry-level mathematics course, should complete the Next-Gen ACCUPLACER exam.

- All Engineering students, regardless of math score, will take the Algebra Readiness Exam (ARE) before Summer Orientation. The ARE is not used as a placement exam but is used to assess fundamental algebraic readiness in preparation for successful completion of the engineering calculus sequence.

Students with ACT sub-score of 25–26 who need MATH 205 have the following options: enroll in the prerequisite MATH 190 or complete the CLEP Pre-calculus exam.

Students with ACT sub-score of 21–22 whose majors require MATH 111 are strongly encouraged by their advisors to enroll in a Supplemented Section of MATH 111. If a section is unavailable, students are encouraged to enroll in GEN 104.

Students with ACT sub-score of 19 will initially be placed in Special Topics in College Mathematics, which is GEN 103 (for those needing MATH 105 for their major) or GEN 104 (for those needing MATH 107, MATH 109, MATH 111, MATH 112, or MATH 151). Students may take the Next-Gen ACCUPLACER for possible higher placement. Advisors working with students who have this sub-score are obliged to enroll students in the appropriate intervention course.

Placement and University Testing Services
All information regarding placement testing can be obtained from:

Office of Testing Services
Davidson Hall, Room 310
Louisville, KY 40292
(502) 852-6606
louisville.edu/testing

Students may direct questions and concerns to this office. Students are encouraged to visit the testing website at louisville.edu/testing/placement-testing-math-reading to obtain information on the options to complete placement testing. The math and/or reading Accuplacer exam may be taken at the Office of Testing Services on campus, remotely at another institution throughout the country, or virtually at home, 24/7 through a virtual testing company.

First-year students MUST complete all placement testing PRIOR to their Freshman Summer Orientation each year to enable registration for class during their session.

The Admissions Office notifies first-year students if placement testing is required in college reading and mathematics.

Speed School of Engineering Mathematics Placement:
Students admitted into the J.B. Speed School of Engineering are placed in the following math courses based on their ACT Math sub-score:

- Students with an ACT sub-score of less than 27 are required to start their studies in the ENGR 190 course.
- Students with an ACT sub-score 27 or above will start their studies in the ENGR 101 course.

Admission to the College of Arts and Sciences

Matriculation
Students are admitted to the College of Arts and Sciences on either a matriculated or non-matriculated basis. High school visitors, visiting students from other institutions, auditors, post-baccalaureate students, and students admitted as special students are considered non-matriculated. All other students are considered matriculated. Students planning to earn degrees from the College of Arts and Sciences must be matriculated in order for the credits they have earned to apply toward their degrees.

Students admitted on a non-matriculated basis will be notified by the Office of Admissions of their status and of the conditions of their enrollment at the time they are accepted. Students admitted on a matriculated basis remain matriculated until they graduate, transfer to another college, or are dismissed.

Transfer students who left their last institution in good standing and who have a standing of at least 2.0 on a 4.0 scale may, upon presentation of transcripts and satisfactory test scores (if applicable), request matriculation at the time of applying for admission.

Entering Arts & Science Freshmen Students
Admission for a normal course load is granted to students meeting the following requirements:

- Graduation from an accredited high school with a grade point average of 2.5 or better, or successful completion of the General Education Development (GED) tests.
- Completion of the State of Kentucky’s Pre-College Curriculum (detailed in the Admission section (p. 19) of this catalog).
- A composite ACT score at or above the national mean.
Persons with deficiencies in the above areas may be eligible for admission under certain conditions:

1. Exceptionally gifted students who have completed three years of high school may be admitted by action of the College’s Admissions and Appeals Committee, provided recommendations from high school counselors and teachers, previous academic records, test scores, and personal interviews indicate the ability to succeed in college-level work.

2. Students with pre-college curriculum deficiencies are, in general, not admissible if they lack two courses in one area or three courses overall. Exceptions are made if the student has a score of 22 (enhanced) or better on the appropriate ACT subtest. Other exceptions must be approved by the College’s Admissions and Appeals Committee. Students admitted by action of the Admissions and Appeals Committee will be required to enroll in courses to remove deficiencies in the areas noted. All deficiencies must be removed by the time the student completes twenty-four (24) semester hours of degree credit. Deficiencies may be removed by successfully completing courses outlined in the Pre-College Curriculum detailed in the Admission section (p. 19) of this catalog.

3. Students who have a high school grade point average between 2.25 and 2.49 may be admitted if the composite ACT score is 23 or above.

4. Students who have a composite ACT score of 18-19 may be admitted if the high school grade point average is 3.0-3.25 or above.

5. A student whose ACT College Reading score is lower than 20 or whose SAT I verbal score is lower than 470 must participate in the state-mandated Supplemented Study Program in College Reading. During the first semester of enrollment, such students must register for one section of a non-mathematics General Education course offered with a supplemented college reading course (GEN 105). Specific courses in the supplemented program vary each semester and will be listed in the Schedule of Courses.

6. Students who graduated from an unaccredited high school may be admitted upon satisfactory completion of such examinations as the College faculty may require. For further information, consult the Admissions Office.

**Conditional Admission**

Students who do not qualify for automatic admission or who cannot remedy deficiencies as prescribed in 1-5 above may be admitted in conditional status if they meet the university’s minimum admission standards.

1. Students admitted in conditional status whose ACT College Reading Scores are 18 or below or whose SAT I Verbal Scores are 430 or below, must participate in the state-mandated Supplemented Study Program in College Reading. During their first semester of enrollment, they must register for one section of a non-mathematics General Education course offered with supplemented study hours each week. Specific courses in the supplemented program vary each semester and will be listed in the Schedule of Courses.

2. Students admitted in conditional status must register for required developmental courses immediately following matriculation and must continue to do so until all deficiencies have been removed.

3. Students admitted in conditional status may register for a maximum of 14 credit hours of coursework in their first semester and 13 credit hours of coursework each semester thereafter until removed from conditional status. Not all courses are suitable for conditionally-admitted students and enrollment restrictions exist. Students should consult their academic advisor regarding courses for which they are eligible to enroll.

4. Students admitted in conditional status must be advised prior to registration each semester until removed from conditional status.

Students will be removed from conditional status when the following requirements have been met:

1. Successful completion of GEN 100 Student Success Center Orientation or GEN 101 Arts and Sciences Orientation;

2. Successful completion of all required developmental courses;

3. A grade point average of 2.0 or better on all college level courses; or

4. Completion of 24 degree applicable hours with a GPA of 2.0 or above.

Students not meeting the requirements for admission may be admitted on a non-matriculated basis as special students by consent of the Dean or by action of the Admissions and Appeals Committee. Special students must pay the regular fees. Special students may not become candidates for degrees except by subsequently satisfying the requirements for admission on a matriculated basis.

**High School Visitors**

The College offers qualified high school students the opportunity to earn college credits by enrolling in selected freshman-level courses (i.e., courses at the 100-0r 200-level). The program is open to high school seniors and, in exceptional cases, to juniors. In order to be admitted as a high school visitor, a student must submit an application, a high school transcript showing minimum grade point average of 3.0, test scores on the ACT or SAT in the top 70th percentile. and a recommendation letter from his or her high school counselor or principal. High school visitors may enroll in one or two courses each semester and may earn a maximum of 24 college credits. All grades earned by high school visitors will be recorded on an official university transcript.

**Transfer Students**

Students who seek admission to the College with credit for work taken at another institution or in another college or school of the University of Louisville are transfer students. Such applicants may be admitted in good standing, admitted in special status, or denied admission.

Admission in good standing requires:

- A grade point average of 2.0 or better on a 4.0 point scale based on all work attempted, excluding developmental courses (see "Transfer Students" in the Admission section (p. 19) of this catalog);
- Good standing at the institution of last attendance, including eligibility to return to that institution;
- Full disclosure of previous attendance in another school or college of this University and/or any other post-secondary institution.

Transfer students with fewer than twenty-four (24) acceptable credits must submit high school transcripts and ACT scores and must meet the requirements for freshmen.
Admission in Special Status
Transfer students not meeting the above criteria may be admitted only in special status by action of the Admissions and Appeals Committee. Such students are subject to the following guidelines:

- Remain in special status with limited load as specified by the Admissions and Appeals Committee for a minimum of 24 semester hours.
- Maintain a minimum 2.0 semester grade point average for the first 24 semester hours attempted in courses applicable to an Arts and Sciences degree.

A student will be removed from special status after 24 semester hours if his/her cumulative grade point average is 2.0 or above.

A transfer student admitted in special status will be suspended if his/her semester grade point average is lower than 2.0 at the end of any semester.

Students ineligible for admission in the College because of disciplinary action in another institution or another school of this University may be ruled eligible for admission to the College by the dean; students who violate the full disclosure requirement will be referred to the Admissions and Appeals Committee for determination of a mandatory withdrawal from the College for a period stipulated by the committee.

Additional Transfer Requirements
To be eligible for a degree from the College of Arts and Sciences, students transferring from a four-year institution must complete at least 30 hours of work applicable to the degree as a student enrolled in the College, including 30 of the final 36 hours and a minimum of 6 credits in the declared major. Students transferring course work from a two-year college are cautioned that a maximum of 60 semester hours of credit from a two-year college may be applied toward the minimum hours required for a baccalaureate degree. The remaining semester hours of the minimum 121 hours required for the baccalaureate degree must be completed at a four-year institution. If a student has earned more than 60 semester hours at a two-year institution, the additional work may, if equivalent, be applied toward fulfillment of general education or other requirements, but will not be applied toward earned hours.

Students must complete at least 50 semester hours of course work numbered 300 or higher. Work from a two-year or community college usually will not apply to this requirement. For this reason, students planning to transfer to this College from a community college or a two-year college are advised to complete the lower-level portion of the College’s General Education requirements and the foreign language series prior to transferring. Courses offered at the 300 level or higher at another institution may not be equivalent to College courses numbered 300 or higher. If a course is accepted in transfer at the 300, 400, or 500 level, however, it will be counted towards the 50 semester hour requirement mentioned above. Students who have transferred to the College should meet with an academic counselor of the Arts and Sciences Advising Center for assistance in evaluating their records for transfer credit.

Transfer Credit Evaluation
The College recognizes appropriate course work done at other accredited universities and colleges and accepts that work according to the principles set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit Practices and state law. Transfer work that is college-level, academic in nature, and earned at appropriately accredited institutions will be accepted as credit toward degree, consistent with policies in effect for resident students. Transfer students must be aware that majors and/or programs may require a minimum grade of a C or better for major admission and certain degree requirements.

Work graded on a pass/fail basis as “Pass” will not count toward fulfillment of general education requirements, the language requirement, or requirements specified in the student’s major program.

Courses that meet general education requirements may be transferred under course equivalencies established in the Office of Transfer Services. In cases where no equivalency is established, the Office of Transfer Services will direct students to the university academic department, school or college where similar courses are offered for evaluation of transfer credits. Students may also work with advisors in A&S to assist in this process.

Transfer students who wish to major in creative art will be required to submit portfolios before they can take 300-level creative art classes (consult the Department of Fine Arts (http://louisville.edu/art/Undergraduate)).

Foreign Students
Foreign students who have a secondary school record sufficient to predict college success and who demonstrate proficiency in the English language will be admitted to the College of Arts and Sciences. Refer to the Admission section (p. 19) of this catalog for more information about International student admission requirements.

Auditors
Persons not eligible for admission to the College, or not seeking admission for the purpose of taking courses for credit, may receive permission to take courses as auditors. All persons who audit classes must pay the regular fees. Persons whose enrollment in the College was limited to audited courses may not change to a credit basis for any course they are auditing unless they have reapplied for admission to the College and have been admitted prior to the deadline for change of status from audit to credit. Regularly-enrolled students may also enroll in classes as auditors. Permission of instructor is required to enroll as an auditor. Students may not enroll in audit status during the early registration period (See Auditing Courses (p. 63)).

Pre-Unit Students
Students seeking admission to another academic unit of the university who do not satisfy all of that unit’s entrance requirements may be admitted to the College of Arts and Sciences as a pre-unit student. Students admitted as pre-unit students are administratively housed in the College until they satisfy all of their intended academic unit’s intra-unit transfer requirements. Persons admitted as pre-unit students should consult their desired unit’s section of the catalog and/or website for more information about these transfer requirements. Pre-unit students are to be advised in A&S advising in accordance with College policy until they successfully transfer into another unit.
Admission to the College of Business

Students are admitted to the College of Business on either a degree-seeking or non-degree-seeking basis. High school visitors, visiting students from other institutions, auditors, post baccalaureate students, and students admitted as special students are considered non-degree seeking. They will be notified by the Office of Admissions of their status and of the conditions of their enrollment at the time they are accepted. All other students are considered degree-seeking.

Students planning to earn degrees from the College of Business must be degree-seeking in order for the credits they have earned to apply toward their degrees. Students remain in a degree-seeking status until they graduate, transfer to another college or university, or are suspended/dismissed.

Admission in Good Standing

If a student has less than 24 transferable credits from another accredited institution, they will be required to submit college transcripts, a final high school transcript, and ACT or SAT scores. In addition to meeting the 2.8 transfer college GPA, they must meet all new freshmen requirements for COB applicants with the following exception. Students meeting the high school GPA and composite ACT or SAT requirements, but not meeting the math score requirement can be admitted if they have successfully completed a college math class at the college algebra level or higher.

Transfer Students

Students who seek admission to the College with credit for work taken at another institution, or in another college or school in the University of Louisville, are transfer students. Such applicants may be admitted in good standing, in conditional status, or denied admission.
Admission in Conditional Status

Students who have a 2.8 university GPA, 24 or more transferable credits, and a B-minus or better in two of the three courses listed above can petition for admission on an exception basis. Students admitted under this petition process will be admitted in conditional status. Students admitted in conditional standing must be advised, and are restricted to 13 credit hours per semester. Students admitted in conditional standing must earn a 2.0 cumulative GPA following admission to avoid suspension as consistent with the COB policy on Academic Status. Students in conditional standing will become students in good standing when their University GPA is 2.0 or above after the next semester completed.

Other Applicants

Students whose last attendance at UofL resulted in academic suspension must petition for readmission. (See section covering College of Business policy on Academic Status.) Students ineligible for admission in the College because of disciplinary action in another institution or another school of this University may be ruled eligible for admission to the College by petitioning to the College of Business Undergraduate Studies Committee. Students who violate the full disclosure requirement will be referred to the COB Undergraduate Studies Committee for determination of a mandatory withdrawal from the College for a period stipulated by the committee.

Additional Transfer Requirements

To be eligible for a degree from the College of Business, students transferring must:

- Complete at least 30 of the final 36 semester hours applicable to the degree as a student enrolled in the University of Louisville.
- Complete a minimum of 12 credit hours in the declared major at UofL.
- Complete at least 50 hours of coursework numbered 300 or higher. Work from a two-year or community college will not apply to this requirement. For this reason, students planning to transfer to this College from a community college or two-year college are advised to complete only the lower level portion of the College’s general education requirements prior to transferring.
- Must earn a 2.0 University GPA and a 2.0 GPA in the major.

Students who have transferred to the College must meet with an academic advisor of the COB Reinhardt Academic Center for assistance in evaluating their records for transfer credit.

The College of Business recognizes appropriate coursework done at other accredited universities and colleges and accepts that work according to the principles set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit Practices Guide and state law. Transfer work that is college level, academic in nature, and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade) consistent with policies in effect for resident students. Students must be aware that majors and/or programs may require a minimum of a B-minus or better for certain degree requirements. Students admitted to the COB from other fully accredited institutions will receive credit for academic courses, but the applicability of transfer credit toward a business degree will be determined by the COB Undergraduate Studies Committee. Courses will be evaluated not only based on content but also as to level. Course level is determined by lower division (numbered 100-299) and upper division (numbered 300-499). A transfer business course must have been taken at the same level as the equivalent course at the University of Louisville to meet degree requirements.

Courses that meet general education requirements may be transferred under course equivalencies established in the Office of Transfer Services. In cases where no equivalency is established, the Office of Transfer Services will direct students to the university academic department, school or college where similar courses are offered for evaluation of transfer credits.

Other Admissions

Visiting Students

Visiting students from other institutions who wish to take courses in the College of Business may enroll in non-degree seeking status and must follow the procedure outlined in this catalog (p. 19). Visiting students are not eligible for COB co-ops and must meet all prerequisite requirements.

College of Business students will be allowed to visit other colleges or universities only with written permission of the Reinhardt Academic Center (Frazier Hall, room 024).

Considerations include academic standing (students must be in good academic standing), residency requirement, course equivalency, and number of course credit hours. Total course load cannot exceed 18 hours. Failure to follow these guidelines may result in loss of credit.

Auditors

Persons not eligible for admission to the College, or not seeking admission for the purpose of taking courses for credit, may request permission to take courses as auditors. Permission of the instructor is required to enroll as an auditor. All persons who audit classes must pay the regular fees. Persons whose enrollment in the College was limited to audited courses may not change to a credit basis for any course they are auditing unless they have reapplied for admission to the College and have been admitted prior to the deadline for change of status from audit to credit. Regularly enrolled students may also enroll in classes as auditors. Students may not enroll in audit status during the early registration period.

- MATH 111 College Algebra - QR (or equivalent)
- ACCT 201 (or equivalent)
- Either ECON 201 or ECON 202 (or equivalent)
Admission to the Dental Hygiene Program

The School of Dentistry offers the Bachelor of Science in Dental Hygiene.

Admission into the Dental Hygiene program is a tiered process: Lower and Upper Division. Students apply to the Lower Division to complete general education and program pre-requisite courses on the Belknap Campus. Students apply to the Upper Division to complete the professional component of the Bachelor of Science Dental Hygiene Degree Program on the HSC Campus.

All applicants should refer to the information included in the University of Louisville catalog relative to general admission policies. Admission to the Lower Division does not guarantee admission to the Upper Division. Admission to the Upper Division is competitive.

Visit our website for more information at louisville.edu/dentistry/degrees/hygiene.

Admission Requirements

Admission to the Lower Division

Students may be admitted directly to the School of Dentistry’s Lower Division (pre-professional) if the minimum admission standards and university deadlines are met. Applications must be submitted to the Office of Undergraduate Admissions and are available online. Students admitted to the Lower Division may also qualify for the program’s Guaranteed Early Admission to the Professional Program. Information regarding early admission and general admission standards are found below.

Admission in Good Standing

To be admitted to the Lower Division in good standing, beginning freshmen and transfer applicants with less than 24 hours must meet the following requirements:

- Graduation from an accredited high school with a grade point average of 2.8 or higher, have a GED, or equivalent by petition (for example, home school education).
- Completion of the pre-college curriculum
- Composite ACT score of not less than 21 or 20 with a GPA of 3.0 or above

Intra-university Transfer Students

Students who have completed at least one semester in another school of the University with a grades point average of at least 2.8 and have a cumulative grade point average of 2.8 or above for all college coursework may apply for an intra-university transfer to the Lower Division Program in Dental Hygiene. They must complete an online change major application that can be found at louisville.edu/advising/students/change-major

Transfer Students

Transfer applicants with 24 hours or more must have a college grade point average of 2.8 or higher to be admitted to the Lower Division in good standing. There is no conditional admission for transfer students. Students transferring into the Lower Division must submit ACT or SAT scores when applying to the Upper Division.

Transfer Grade Acceptance

The University of Louisville recognizes appropriate course work completed at other accredited universities and colleges and accepts that work according to the principles set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit Practices and state law. Transfer work that is college-level, academic in nature, and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade) and will be accepted as credit toward degree, consistent with program requirements in the Dental Hygiene Program. All graded transfer work, however, will be used to calculate GPA for Upper Division admission purposes.

Transfer Equivalency Determination

Courses that meet general education and program requirements may be transferred under course equivalencies established in the Office of Transfer Services. It is the student’s responsibility to read the catalog, student handbooks, and official notices (e.g., University of Louisville School of Dentistry Dental Hygiene Program webpage and emails) to be informed about credits, requirements, and to abide by the regulations of the University and the School of Dentistry.

Admission to the Upper Division

Admission to the Upper Division is competitive. Admission to the Lower Division does not guarantee admission to the Upper Division. To be considered for admission, applicants meeting the below minimum requirements may be eligible to apply. Advising to evaluate applicant readiness is encouraged for all students and required for freshman students. Students meeting the minimum academic requirements are not guaranteed admission to the program.

Course Requirements

- Minimum 2.8 cumulative GPA (based on all college courses completed at accredited post-secondary institutions, as listed on all official transcripts).
Additional Admission Requirements

- Dental Hygiene Professional Application through the ADEA Dental Hygiene Centralized Service (DHNAS), available online at adeadhcas.org (http://www.adeadhcas.org).
- Application deadline is January 15 and only complete applications, including all required materials, will be reviewed for admission.
- Required DHNAS materials include:
  - ACT/SAT Scores
  - Documentation of at least 12 hours of dental hygiene observation
  - Response to personal statement(s) addressed within application
  - Letters of recommendation submitted directly from recommender including two (2) from instructors, one of whom must be science, and one (1) from a personal/work/community reference.
  - Official transcripts from all previously attended institutions

University application requirements for admission:

1. Transfer students not currently enrolled in UofL must also complete the UofL undergraduate application, specifying dental hygiene (DHL) as a major selection (if admitted transfer students will be moved to DHL).
2. UofL students not enrolled in DHL must submit a change major form, specifying DHL for the designated Fall semester: louisville.edu/advising/students/change-major
3. UofL DHL students need only submit application through DHNAS.
4. TOEFL scores for applicants whose first language is not English. Because command of the English language is essential for successful professional school study, non-native English speaking applicants, regardless of citizenship, must demonstrate their English proficiency through the Test of English as a Foreign Language (TOEFL). Preference is given to candidates with a minimum score of 100 and with listening and speaking section scores at 26 or above. The institution code for submitting TOEFL scores to the UofL Office of Admissions is 5933. Students who have graduated from a high school in which English is the primary language and/or has completed a minimum of 30 credit hours in a fully accredited U.S. college or university qualify for a waiver of the TOEFL requirement.

Applicants must comply with the minimum technical standards (http://louisville.edu/dental/hygiene/admission/upper/Minimum%20Technical%20Standards%20Form.pdf) for admission and matriculation with or without accommodation and the immunization requirements for all Health Sciences students. Compliance with the immunization requirements for all Health Sciences students is mandatory.

Immunizations requirements have been established to safeguard the health and well-being of patients, students, and all health care workers and can be found at louisville.edu/campushealth/information/immunizations/health-professional-students.

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Upper Division transfers from another Dental Hygiene Professional Program

The University of Louisville School of Dentistry considers Upper Division Dental Hygiene transfer students (coming from professional study in another dental hygiene program) on a case-by-case basis. Only individuals who are in good standing at their present dental hygiene school (or were in good standing when they left) are considered to be eligible as a transfer student. Upper Division transfers students will be required to meet with the program director for academic review and recommendation.

Admission to the College of Education and Human Development

Woodford R. and Harriett B. Porter Building
University of Louisville
Louisville, KY 40292
Phone: 502.852. 5597
Email: edadvise@louisville.edu
Web: louisville.edu/education
Social: Facebook (http://www.facebook.com/uofleducation)

Admission Requirements

Students are admitted to the College of Education and Human Development on either a degree-seeking or non-degree seeking basis. High school visitors, visiting students from other institutions, auditors, and post baccalaureate students are considered non-degree seeking. Non-degree seeking students will be notified by the Office of Admissions of their status and of the conditions of their enrollment at the time they are accepted. All other students are considered degree-seeking.

Students planning to earn degrees from the College of Education and Human Development should submit an application for admission to the Undergraduate Admissions Office of the University. Students must apply for readmission if they do not enroll in classes for two or more years, and they must follow the catalog requirements in place at the time of readmission.

Students applying with less than 24 credit hours are admitted in good standing with the following:

- High school grade point average is 2.50 or above, or successful completion of the General Education Development (GED) tests
- Completion of the Kentucky Pre-College Curriculum
- ACT composite score of 21 or above
• (If college credit has been earned) a cumulative college grade point average (based on degree applicable credits) of 2.25 or above

Students applying with less than 24 credit hours who do not meet the above criteria may be admitted in conditional status subject to University admission guidelines for new Freshmen.

Note: Students who are 21 years of age or older are exempt from the Pre-College Curriculum requirements.

Students applying with 24 credit hours or more are admitted in good standing if their cumulative grade point average is 2.25 or above. Students admitted in conditional status may enroll in no more than 14 credit hours (10 credit hours in the summer). Students admitted in conditional status who earn a University of Louisville semester grade point average of 2.25 or above will be placed in good standing.

Admission in Special Status
Students whose cumulative college grade point average (based on degree applicable credits) is below 2.00 may petition the College of Education and Human Development Standards and Admissions Committee for consideration for admission in Special Status. Conditions for admission in special status and continuance in special status will be decided by the College of Education and Human Development Standards and Admissions Committee based upon a student’s academic background and circumstances.

Transfer Students
A student transferring from another institution should take the following steps in seeking admission:

1. Complete an undergraduate application and submit to the Admissions Office, University of Louisville, for admission to the College of Education and Human Development. Undergraduate applications are available online at: admissions.louisville.edu/ugrd.
2. Request that official transcripts from each institution previously attended be sent to the Admissions Office, University of Louisville. (A student who fails to declare previous attendance at another institution may be dismissed.)
3. Schedule an appointment with Education Advising and Student Services to have an official program prepared.

Additional Program Requirements
Organizational Leadership and Learning program
Applicants applying for admission to Organizational Leadership and Learning must meet the following criteria, in addition to the admission standards listed above.

Prior extensive and documented work experience, or equivalent experiences as determined by the program faculty, or technical coursework in a training area or occupation is required.

For the BS in Organizational Leadership and Learning with a track in Career and Technical Education the applicant must be employed as a vocational teacher. Work experience requires two of the four years to have occurred within the past five-year period.

Applications to the BS in Organizational Leadership and Learning with a track in Healthcare Leadership must have a 2.7 cumulative GPA in college level courses. Applicants who have a cumulative GPA below 2.7 may petition the College of Education and Human Development Standards and Admissions Committee for consideration for admission on a probationary status.

A minimum of 2,000 hours of supervised work experience in the occupation to be taught is required. For the BS in Organizational Leadership and Learning with a concentration in Career and Technical Education the applicant must be employed as vocational teacher. Work experience requires two of the four years to have occurred within the past five-year period.

Teacher Education programs
Students who plan to pursue an undergraduate teacher education program should meet with an academic advisor in the College of Education and Human Development to discuss the application process and admission to the program.

All candidates must submit a complete teacher education application to the College of Education and Human Development by the deadlines specified for each program. For more information: louisville.edu/education/degrees.

Admission to teacher education programs is competitive. The admissions committee will assess the qualifications of each applicant and his/her potential for success in the program.

Admission to the Kent School of Social Work

Oppenheimer Hall
University of Louisville
Louisville, KY 40292
Phone: (502) 852-6402
Email: bswkent@louisville.edu
Web: louisville.edu/kent

Admission Requirements
Persons interested in admission to the Kent School should contact the BSW Program. We encourage potential applicants to please consult the Kent Website at louisville.edu/kent/academics/bachelor-of-science-in-
Current UofL students must:

- Contact the BSW Program at bswkent@louisville.edu to declare Social Work as a major.
- Supply two letters of reference supporting the student’s application and providing information about character, maturity, stability, achievements, interactional skills and special qualities. These letters may come from professors, high school teachers, counselors, supervisors, professional social workers, and other professionals, but not from relatives of the student.
- Submit a 700–1000-word personal statement with the application. The personal statement (double-spaced, 12-point font) should address the following topics: a) your commitment to the goals, purposes, ethics and values of social work; and b) the intellectual and personal qualifications that will enable you to practice social work successfully.

Note: If there are gaps or deficiencies in your academic record, please address these in an addendum to your statement.

- A signed and dated Secondary Application Form including: the Statement of authenticity, Release and Waiver for admissions and student records, Ethical Standard of Behaviors, program plan selection, and if applicable transfer degree information.
- Current resume that includes the following information: any places of employment and volunteer experiences that you have had in the last 2 years including place of employment or volunteer activity, dates of employment or volunteer experience, job title or position held, description of job responsibilities.

If you have been convicted of a felony, please include a description of the circumstances and outcomes of the conviction. Please note that prior convictions for criminal offenses may preclude one's ability to be licensed as a social worker in many states. In addition, many practicum sites require background checks and periodic drug screenings. Any negative findings that affect agency placement may also prevent successful completion of the requirements for the degree. Applicants and students should consider these barriers in their educational planning.

Applications to the upper division are accepted based on the following deadlines:

- On-campus program: Priority Deadline: February 1st
- Online program: Priority Deadline: February 1st, final deadline: May 31st

Submit the above materials to:

BSW Admissions
Kent School of Social Work
Louisville, KY 40292
Email: bswkent@louisville.edu

Transfer Students

Transfer students must:

- Complete the application process for admissions to the University of Louisville. Applications for transfer student can be found at admissions.louisville.edu. This is a page of quick links for transfer students and also contains the link to the application. Make certain that you indicate Social Work as your major on this form.

If you have questions about this form, you may contact the University of Louisville Office of Admissions by phone—(502) 852-6531 or (800) 334-8635 ext. 8526531; mail—Office of Admissions, University of Louisville, Louisville, KY 40292; or email—admitme@louisville.edu.
• Submit a non-refundable application processing fee. Attach a personal check, money order or cashier’s check (U.S. dollars) payable to the University of Louisville to your completed application if you submit the hard copy application. If you apply on-line at the above website, you must also pay your application fee on-line with a credit card or check. Note: Paying your application fee with a check will delay the process for 8 days.

• Provide an official academic transcript from each college/university you have attended, including those at which you were enrolled for academic credit as a non-degree student and/or credits, which you transferred to another college. All transcripts must bear the official seal and signature of the institution attended. You must request these transcripts directly from the Registrar or appropriate officer of each institution. UofL transcripts are provided automatically for applicants who have attended UofL. Applicants must have earned 45 semester hours of college credit and have a minimum cumulative GPA of 2.5 on a four point scale.

• The Test of English as a Foreign Language (TOEFL) is required for applicants whose native language is not English. A test link to the TOEFL is available at louisville.edu/student/services/testing/index.html.

• International students may be required to have their transcripts evaluated by a credential evaluation service in the U.S. Two possible services include World Education Services, Inc., at wes.org (http://www.wes.org) and Educational Credential Evaluators at ece.org (https://www.ece.org). Students may be required to participate in a brief telephone interview as part of the admission process. When completing the I-20, students should note that they will be placed in a practicum as part of their education. Admitted students should visit the International Center when they arrive on campus to obtain the proper immigration documentation necessary to begin the practicum.

Transfer students must also submit additional documents to complete their application process. The additional documents include:

• Two letters of reference supporting the student’s application and providing information about character, maturity, stability, achievements, interactional skills and special qualities. These letters may come from professors, high school teachers, counselors, supervisors, professional social workers, and other professionals, but not from relatives of the student.

• Current resume that includes the following information: any places of employment and volunteer experiences that you have had in the last 2 years including place of employment or volunteer activity, dates of employment or volunteer experience, job title or position held, description of job responsibilities.

• A 700-1000 word personal statement (double-spaced, 12-point font) that addresses the following topics: a) your commitment to the goals and purposes of social work; b) the intellectual and personal qualifications that will enable you to practice social work successfully.

Note: If there are gaps or deficiencies in your academic record, please address these in an addendum to your statement.

Each applicant is required to add the following statement to the beginning of their personal statement accompanied by the applicant’s signature and date of the signature:

Academic dishonesty is prohibited at the University of Louisville. In keeping with this policy, I certify the material contained in this application is solely my work and that I have neither cheated nor plagiarized in its creation.

If you have been convicted of a felony, please include a description of the circumstances and outcomes of the conviction. Please note that prior convictions for criminal offenses may preclude one’s ability to be licensed as a social worker in many states. In addition, many practicum sites require background checks and periodic drug screenings. Any negative findings that affect agency placement may also prevent successful completion of the requirements for the degree. Applicants and students should consider these barriers in their educational planning.

Submit the above materials to:

BSW Admissions
Kent School of Social Work
Louisville, KY 40292
Email: bswkent@louisville.edu

Admission to the School of Music

School of Music
University of Louisville
Louisville, KY 40292
Phone: (502) 852-6907
Email: gomusic@louisville.edu
Web: louisville.edu/music
Social: Facebook (http://www.facebook.com/uoflmusic)

Admission Requirements

Every prospective School of Music student must successfully audition and submit the following before a formal admission recommendation is made:

1. A completed application for admission to the University of Louisville, including the application fee
2. A completed School of Music Application for Financial Aid (optional)
3. Official high school/college transcript
4. Scores from the American College Testing (ACT) Program (required for all full-time applicants who have earned fewer than 24 acceptable semester credit hours in a college or university)
5. Test of English as a Foreign Language (TOEFL). If English is not your native language, you must verify your English proficiency by submitting official, satisfactory scores (550 or higher for paper-based test, 213 or higher for computer-based test, or 79-80 on the internet-based test), or a score of 6.5 on the IELTS exam, or by successful completion of the Intensive English as a Second Language (IESL) program at the University of Louisville.

6. Name and contact information of two references, at least one of whom must be a music professional who has taught or directed the student (private teacher, high school teacher, ensemble director, etc.); the other may be another music professional or a high school teacher of a different subject.

7. Although each student must play or sing a performance audition for the School of Music, applicants to the BM program with emphasis in Composition must also submit a portfolio of work that includes the following: three or four samples of original compositions, along with recordings of the same works, if possible. Evidence of experience using various instrumental and/or vocal combinations is helpful.

8. In addition to the instrumental/voice audition, the successful music theory applicant will submit a portfolio containing three items: a) an essay of 500 words or more about a piece of music, which can be an analysis, a set of program notes, or a description of what you like about the piece; and b), one of the following: a composition (either stylistic or original; please send score and recording), a melody harmonization for four voices, a figured bass realization, or a 2-voice mixed species counterpoint example; and c), a short essay (100-200 words) detailing why you want to study music theory. Students who have questions about what to submit in the portfolio should feel free to ask questions before submitting.

9. Because the field of Music Therapy requires the therapist to sing to patients/clients, a demonstration of functional vocal ability must accompany the application of all non-voice principle majors. Applicants must submit a video recording of themselves singing two solo songs of contrasting styles. These songs do not need to be memorized, can be very simple, and may be accompanied by an instrument or sung a cappella. The video must be sent via YouTube for evaluation by the faculty. Please email the YouTube/video links to gomusic@louisville.edu by February 27.

Students admitted on probation/conditionally must be in good standing after one or two semesters (as indicated in the acceptance letter), or they will be dismissed and not allowed to continue pursuing a degree in music.

All recommendations are pending the student meeting minimum admission requirements of the School of Music (2.75 GPA and 21 ACT).

Note: Admission to Teacher Education requires 21 ACT. Students must apply to Teacher Education in the second semester of their sophomore year (February 1 application deadline). Failure to be admitted to Teacher Education will delay a student’s ability to take advanced classes in music education and teacher education.

**Prerequisite Training in Applied Music**

Audition requirements can be found at: louisville.edu/music/apply/undergraduate/audition-dates-requirements

Instrumental requirements: louisville.edu/music/apply/undergraduate/audition-dates-requirements/instrumental-undergraduate-audition-requirements

Jazz requirements: louisville.edu/music/apply/undergraduate/audition-dates-requirements/jazz-studies-undergraduate-audition-requirements

**All Applied Music Fields**

If the qualifying entrance examinations indicate that an entering student has not reached the minimum level of achievement in required music fields (or in certain theoretical courses), the student will be required to take appropriate courses without credit until the proper level is attained.

**INSTRUMENTAL (NON-JAZZ) UNDERGRADUATE AUDITION REQUIREMENTS**

**Bassoon**

All prospective bassoon students should be prepared to play 2-3 works of contrasting styles. You may be asked to play scales and to sight-read.

**Cello**

All prospective cello students should be prepared to play 2 or 3 contrasting pieces. Suggested repertoire consists of the following:

- a movement of a concerto;
- a movement of solo Bach;
- an etude; or
- a solo piece or sonata.

**Clarinet**

All prospective clarinet students should be prepared to play 2 works, or movements of works, of contrasting styles. Scales are not required, but you will be asked to sight-read.

**Double Bass**

All prospective bass students should be prepared to play 2-3 contrasting solo selections, standard orchestral excerpts, and major and minor scales. You may also be asked to sight-read.

**Euphonium**

All prospective euphonium students should be prepared to perform 2 or 3 selections in contrasting styles from solo literature or etudes. These selections should demonstrate both expressive and technical dimensions of the student’s playing. Major scales and sight reading may also be asked.

**Flute**

All prospective flute students should be prepared to play 2 pieces of contrasting styles for the audition, for a total of 8-10 minutes of music. You should be prepared to sight-read and play a few scales.

**French Horn**

All prospective horn students are required to play 2 pieces of contrasting styles, scales, and to sight-read.

**Guitar**

All prospective guitar students must display the following:

- completion of Aaron Shearer’s *Classic Guitar Technique, Vol. 1* or a comparable classic guitar method;
- preparation of at least 3 contrasting pieces preferably from different historical periods (i.e. Renaissance, Baroque, Classical/Romantic, 20th Century/Contemporary); one of the pieces should be etudes by
such composers as Aguado, Brouwer, Carcassi, Giuliani, Sor, Tárrega, or Villa-Lobos;
• knowledge of applicable technical studies: Giuliani’s 120 Right Hand Studies, Segovia’s Diatonic Major and Minor Scales, Carlevaro’s School of Guitar; and have sufficient sight-reading abilities.

Harp
All prospective harp students should be prepared to play 2 pieces of contrasting styles, for a total of 12-15 minutes of playing.

Oboe
All prospective oboe students should be prepared to play 2-3 works of contrasting styles, such as a Handel Sonata or pieces of comparable difficulty. Students may be asked to play scales and to sight-read.

Organ
To enter the four-year degree program in organ, the student should have completed sufficient piano study to be able to play Bach Inventions, Mozart sonatas, Beethoven sonatas, and compositions by Mendelssohn, Grieg, Schubert, and Schumann.

Percussion
Students should perform works in the following categories that accurately represent their current level of achievement. There may be possible sight-reading on all instruments (keyboards, timpani, snare drum).

Required:
• one 2-Mallet and/or 4-Mallet keyboard work (with or without piano accompaniment);
• two snare drum works (rudimentary and orchestral);
• one Timpani work (2, 3, or 4 Drums); and
• Snare Drum Rudiments.

Optional:
• one multiple percussion work; or
• Drum Set: various styles (Jazz, Bossa Nova, Afro, Cuban, etc.).

Piano
To be admitted as an undergraduate piano student, students should:
• be able to play all major and minor scales and arpeggios correctly at a moderately rapid tempo;
• have the skills to sight read compositions of moderate difficulty; and
• have already studied such compositions as Bach Inventions, classical sonatas, and works by such composers as Mendelssohn, Chopin, Schumann, Debussy, Bartok, and Kabalevsky.

At the audition, students will be expected to play three pieces of contrasting styles including:
• Bach Two or Three Part Invention or suite movement;
• Movement of a classical sonata; and
• Romantic, Impressionistic, or Twentieth/Twenty-first Century work.

They will also be asked to present:
• Scales and arpeggios in any major or minor key; and
• Sight reading of an intermediate level work.

Students must bring to the audition a Repertoire List including works studied in the past five years.

Saxophone
All prospective students should be prepared to play 2-3 works, or movements of works, of contrasting styles. Students may be asked to play major and minor scales and to sight-read.

Trombone
Tenor Trombone: proficiency in major scales, 2 octaves; 1 Rochut Melodious Etude; Morceau Symphonique by Guilmant or Concertino by David.

Bass Trombone: proficiency in major scales, 2 octaves; 1 Rochut Melodious Etude, Vol. 1; pick 1 solo from Patrick McCarty Sonata, Lebedev Sonata, or Telemann Fantasies.

Trumpet
All prospective students are required to play 2 pieces of contrasting styles, scales, and to sight-read.

Tuba
All prospective students should perform 2-3 selections in contrasting styles from solo literature or études. These selections should demonstrate both expressive and technical dimensions of the student’s playing. Major scales and sight-reading may also be asked.

Viola
All prospective students should be prepared to play:
• one 3 octave scale (the student may choose the key);
• one movement from the Bach Unaccompanied Cello Suites; and
• one movement from the standard viola literature that best demonstrates the student’s ability.

Violin
To enter the degree program in violin performance, the student should be able to perform:
• A movement of any Bach Sonata or Partita;
• A movement of any Mozart Concerto; and
• A movement of any Romantic Violin Concerto.

To enter any other degree program, the student should be prepared to perform:
• Two movements of contrasting styles, one of which should be a movement of unaccompanied Bach.

INSTRUMENTAL (JAZZ STUDIES) UNDERGRADUATE AUDITION REQUIREMENTS

Major Instrument Requirements
All scale and chord possibilities can be found in any Aebersold volume, Aebersold Summer Jazz Workshop handout, or contact the school for material. A jazz experience at University of Louisville is geared toward achieving a greater proficiency in ensemble playing. Your primary
performing opportunities will be in jazz ensemble and combo. Solo performance is a desirable goal and may also be studied.

All Instruments (except Drums, where noted)

Scales – All 12 keys in at least two octaves
- Major/Dominant/Minor (Dorian preferred)
- Blues scales (not for bass)

Chords/Arpeggios: Major/Dominant/Minor

Play the following: all selections can be found in Aebersold Volume 54 “Maiden Voyage”
- Blues in either Bb or F;
- A tune of your choice: melody and improvisation (good choices include Autumn Leaves, Summertime, Maiden Voyage, Satin Doll);
- A jazz transcription if possible by a master performer on your instrument; and
- Optional: a classical selection of your choice, length not important.

Sight-reading: Melody and improvise basic chord progression

Piano

One hand voicings
- Right hand guide tones/Left hand root
- Three and/or four notes rootless voicings (guides and one or two color tones) in either right or left hand

Sight-reading
- Basic chord progression: Right hand voicings/Left hand root
- Melody and improvisation with or without voicings

Guitar

Two voicings for all root position seventh chords (one voicing from sixth string and another off or fifth string)

Sight-reading
- Melody and improvise basic chord progression
- Comp through progression

Bass

- Sight-reading
- Basic chord progression
- Demonstrate: 2 beat/walking/Latin

Drum Set

- Demonstrate the following styles in either 32 or 12 bar form: Swing/ Bossa Nova/Rock (any style)/Afro-Cuban
- Be able to play time in either 32 or 12 bar form: 4/4, 3/4, 6/8
- Demonstrate the ability to play with brushes
- Trade: 8’s over a 32 bar tune/ 4’s over a 12 bar blues

VOICE UNDERGRADUATE AUDITION REQUIREMENTS

Be prepared to sing at least 2 songs in the classical style, from memory, in contrasting styles and moods. Usually this means one is in a moderate or slow tempo, which shows your ability to sustain good vocal tone, and one is in a livelier mood, which demonstrates articulation and vocal flexibility. The songs you choose should be memorized from printed music and must be accompanied by piano. Songs may have either English or foreign texts. You should get advice on appropriate selections and, if possible, vocal training from a competent and knowledgeable voice teacher in preparation for the audition.

In addition to singing 2 songs, you will be asked to sing at sight a short musical example. There may also be a tonal memory evaluation in which you will sing back a few brief sequences of intervals that have been played on the piano. These are diagnostic exercises that help in assessing your level of musical security and independence. Note: vocal auditions may be video recorded.

Community College Transfer Limits Policy

For bachelors’ degrees, students must present at least sixty (60) semester credit hours earned at four-year institutions. Students must also meet residency requirements.

Special Students

Students sixteen years of age or over who have not satisfied the requirements for admission as candidates for degrees may, by special consent of the Dean, be admitted upon payment of the regular fees. Such special students cannot become candidates for degrees until they have satisfied admission requirements for the degree desired.

Re-enrolling Students

If a student has a break in enrollment of two or more calendar years, that student must apply for readmission to the School of Music, and if admitted, will be subject to catalog requirements in effect at the time of readmission. Students who have not taken applied music for one or more calendar years must re-audition in their major applied area. Bachelor of Arts students who have completed their applied music requirements are exempt, unless they plan to continue applied music study.

Students who were not enrolled during the immediate past semester, but were enrolled within the last two calendar years, and who wish to continue in the school and program in which they were last registered, are eligible to re-enroll. They need to complete a re-enrollment form at the School of Music or the Registrar’s Office.

Students completing the re-enrollment process are eligible for early registration for the term in which they wish to return. Students whose last enrollment status was visitor, high school visitor, conditional, or who were dismissed, must reapply. Students last enrolled in University College or Transitional Studies must also reapply through the Office of Admissions since those units are no longer in existence.

Transfer Grade Acceptance

The University of Louisville recognizes appropriate course work done at other accredited universities and colleges and accepts that work according to the principles set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit Practices and state law.

Transfer work that is college-level, academic in nature, and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade) and will be accepted as credit toward degree, consistent with policies in effect for resident students. Students must be aware that majors and/or programs may require a minimum of a C or better for certain degree requirements. Individual units or programs may set higher standards in accepting transfer grades, which supersede those indicated here.
The School of Music does not accept transfer grades below a C. No credit is transferred for applied music or theory. Advanced standing for applied music may be awarded at a jury. Advanced standing for theory is awarded by examination. Music history credits are evaluated for transfer by the Music History faculty. Recital Attendance credits may be transferred. Principal ensemble credits may be transferred, but not to exceed one per semester. Those with Recital Attendance transfer credits or documented ensemble experiences or courses will be evaluated on an individual basis by the Dean's Office.

Transfer Equivalency Determination
Transfer equivalencies are determined by the instructional unit or the "best fit" unit as determined by the Office of the University Provost. Courses that meet general education requirements may be transferred under course equivalencies established in the Office of Transfer Services. In cases where no equivalency is established, the Office of Transfer Services will direct students to the university academic department, school, or college where similar courses are offered for evaluation of transfer credits.

Admission to the School of Nursing

School of Nursing
Health Sciences Campus, K-Wing
555 South Floyd Street
Suite 3019
Louisville, Kentucky 40202

Phone: (502) 852-8300
Web: louisville.edu/nursing

Admission Requirements
The School of Nursing offers the Bachelor of Science in Nursing (BSN). There are two degree curricula available to pursue the BSN: a Traditional BSN and an RN to BSN. Students apply for a degree program based upon their previous academic background. To be eligible to apply to the RN-BSN program, students must be a licensed registered nurse.

Admission to the School of Nursing is a two-level process for the traditional degree program: lower division and upper division. Students must be admitted to the lower division of the degree program to be eligible to apply to the upper division of the degree program. Admission to the lower division does not guarantee admission to the upper division. Admission to the upper division of the degree program is competitive.

Admission to the Lower Division
Students may be admitted directly to the School of Nursing's lower division (pre-professional) if the minimum admission standards and university deadlines are met. Admission applications must be submitted to the Office of Undergraduate Admissions. Applications are available online through the university's website. Admission to the lower division (pre-professional) does not guarantee admission to the upper division (professional curriculum).

Freshmen and transfers with fewer than 24 hours of college credit

To apply to the lower division, applicants must:

- Submit an official high school transcript
- Submit all official transcripts from all outside college course work, if applicable
- Submit an ACT or SAT score.

All documents are submitted to the Office of Admissions. Mail to or request mailing to:

The Office of Admissions
Dept. AO
University of Louisville
Louisville, KY 40292.

Admission in good standing
To be admitted to the lower division in good standing, beginning freshmen and transfer applicants with less than 24 hours of college credit must meet the following requirements:

- Graduation from an accredited high school with a grade point average of a 2.8 (on a 4.0 scale) or higher, or have an appropriate GED score, or equivalent by petition (for example, home school education). 3.0 high school grade point average required, effective for fall 2018 admission
- Completion of the pre-college curriculum
- Composite ACT scores at or above 22
- Math ACT sub-score of 22
- Minimum college grade point average of 2.8, if applicable

Admission in conditional standing
Students with a composite ACT score of 22 and a minimum Math sub-score of 19 that meet admission requirements A and B (above) may be admitted in conditional standing. Students in conditional standing become students in good standing if their University of Louisville grade point average is 2.8 or above after completion of their 1st semester. The University Grade Point Average is based on all college-level undergraduate courses taken at the University of Louisville. Students will be placed on academic warning according to the academic warning, probation, and suspension standards if after completion of their 1st semester their University GPA is less than 2.8.

Transfer Students with more than 24 hours of college credit
Students must meet the admissions requirements for transfer students with more than 24 hours. To apply to the lower division, applicants must:

- Submit all official transcripts from all outside college course work to the Office of Admissions. Mail to or request mailing to:

The Office of Admissions
Dept. AO
University of Louisville
Louisville, KY 40292.
To apply to the upper division, a student must:

- Have a minimum cumulative college grade point average of 2.8 (on a 4 point scale) in all undergraduate college work.
- There is no conditional admission for transfer students.

University of Louisville Students Changing Majors

Students who have completed at least one semester in another school of the University of Louisville and have a minimum college grade point average of 2.8 may apply to the School of Nursing. They must complete an online change of major form that can be found on the university website. Students admitted through this process must be advised before registering for courses in their first semester in the nursing program.

Admission to the Upper Division

Traditional BSN Degree

Admission to the upper division is competitive.

Students that are admitted into the upper division professional nursing curriculum will be required to meet all clinical compliance requirements prior to entering any clinical facilities.

To be considered for admission, applicants must:

- Have completed the lower division (pre-professional) curriculum or be in the last semester of completion (see Degree Programs - Nursing).
- Have earned a minimum cumulative undergraduate grade point average of 2.8. The cumulative grade point average for admission to upper division nursing is calculated based on all course work completed at accredited postsecondary institutions. Transfer credit and transfer GPA is determined by the Office of Transfer Articulation in the Office of Undergraduate Admissions.
- Have earned a minimum lower division (pre-professional) program grade point average of 2.8. The lower division program grade point average is based on required lower division curriculum course work as determined by the nursing faculty. 3.0 minimum program GPA required, effective fall 2019.
- Earn a C or higher in required science, nutrition, nursing and English courses. Science courses must have been completed within the last 10 years. Students must submit an application for acceptance of sciences taken prior to the last 10 years to the School of Nursing Office of Student Services. Appropriate faculty and/or administrators will review the request. Consideration will only be given to those with experience in the science in which exception is being requested. Transfer credit for science courses taken prior to the last 10 years will be evaluated on an individual basis. There can be no outstanding incompletes prior to beginning nursing courses.

Applicants to the Traditional BSN program that have completed 45 or more semester credit hours of the required lower division coursework at University of Louisville and meet the minimum criteria for admission will have 0.2 points added to their program grade point average for ranking during review of upper division applications. Last semester for implementation of this policy is Spring 2019. Effective fall 2019, bonus will be awarded based on admission status as a first time University of Louisville freshman.

Applying to the Upper Division

To apply to the upper division, a student must:

- Submit a University of Louisville Undergraduate Application if new to UofL, or submit an online change of major form if already enrolled in a school other than the School of Nursing at UofL.
- Complete the Legal Questionnaire available on the School of Nursing website
- Submit a written essay, narrative, or short story describing your personal qualities and how they fit you for a career in nursing, your perception of the nursing field and what influenced you to select nursing as a career
- Submit a certified criminal background check. Details on the School of Nursing website.
- Complete the interview process (if requested).
- Applications and credentials must be received by the following deadlines:
  - May 1 for Fall admission - traditional program
  - September 15 for Spring admission - traditional program

NOTE: An unsatisfactory background check may prevent a student from being admitted into the program and/or licensed as a registered nurse. Questions regarding licensing should be addressed with the Kentucky Board of Nursing.

The appropriate undergraduate committees must evaluate applicants for acceptance to an upper division clinical cohort. The committee decision will be communicated to the applicant in writing. Admissions are contingent on successful completion of the lower division (pre-professional) curriculum. Accepted students will receive a letter of agreement stating the anticipated start date, the conditions for accepting the space, and consequences of failing to keep the space. Students are required to attend a mandatory orientation provided through the School of Nursing prior to registering for any upper division nursing courses. The letter of agreement must be signed and returned within 10 working days of receipt to assure a space in the upper division clinical cohort. All qualified students who meet admission criteria but are not accepted into the requested upper division clinical cohort due to space constraints should meet with their advisor.

Guaranteed Early Admission

The Guaranteed Early Admission (GEA) program is available to first year University of Louisville freshmen. Twenty spaces are reserved in upper division each academic year for first year, full time college freshmen, who enter the University of Louisville in the Fall semester. First year college freshmen apply upon completion of their first year of college for a guaranteed admission to a specific upper division cohort. These spaces are awarded based upon the student's competitive application. Transfer students are not eligible.

To be considered as a first year freshman for guaranteed admission to the upper division, an applicant must:

- Successfully complete NURS 101 (or equivalent) with a passing grade.
- Successfully complete the first year of full time coursework with a minimum 3.0 GPA.
- Completion of two required science courses (CHEM 105 and BIOL 102 or their equivalent) with minimum grades of B.

Application requirements:

- An essay of 500 words or less describing your interest in a career in nursing.
- School of Nursing Application for GEA available on SON website or from professional advisor.
- Deadline is May 1 each year.
To maintain GEA status:

- Accept a start date to begin upper division courses for a specific semester.
- Maintain a cumulative college GPA of 3.0 or higher each semester of enrollment in the lower division.

**Admission to RN-BSN Program**

Students may be admitted directly into the RN-BSN program if the admissions requirements are met.

To apply to the program, applicants must:

- Submit a University of Louisville undergraduate admissions application if you are a new student to UofL or submit a major change form if already enrolled in a school other than the School of Nursing at UofL.
- Submit all official college transcripts to the Office of Admissions. Mail to or request mailing to:

  **The Office of Admissions**
  Department AO
  University of Louisville
  Louisville, KY 40292.

- Have a cumulative grade point average of at least 2.5 on all college work.
- Have a Registered Nurse license (without restrictions).
- Earn a C or higher in required science, nursing and English courses. There can be no outstanding incompletes in courses prior to beginning nursing courses.
- May be required to submit a certified criminal background check. Details on the School of Nursing website.
- Undergraduate admissions deadlines may be obtained from the University of Louisville website at louisville.edu.
- Applicants are required to be advised by the School of Nursing academic advisor prior to registering for courses.

**Additional Transfer Student Information**

**Awarding of transfer credit**

A student may earn college credit through a variety of mechanisms. Therefore, students seeking advanced standing through transfer of credit should seek advice from the Office of Student Services, School of Nursing, as soon as possible. Individual evaluations include:

1. Courses from accredited colleges and universities.
2. Course descriptions and outlines.
3. CLEP examinations.
4. Advanced Placement examinations.
5. Portfolio documentation, RN-BSN program only. Students in the RN-BSN program will receive 30 college credits from the university after successful completion of the portfolio course.
6. General Education Block Certifications by accredited Kentucky institutions are recognized.
7. The School of Nursing has a ten-year limit on science courses. Transfer credit for science courses taken prior to the last 10 years will be evaluated on an individual basis.
8. Other transfer courses are evaluated on an individual basis for currency and equivalency to required courses in the nursing curriculum. Science, English, and nursing courses taken at another college or university must have been passed with a grade of C or better in order to be transferred into the nursing curriculum. Generally, only courses equivalent to pharmacology and pathophysiology can be transferred into the School of Nursing degree program.

**Transfer Policy for Students Transferring from Other Schools of Nursing**

Applicants transferring from other schools of nursing will submit complete course syllabi and appropriate supporting documents to the SON Office of Student Services. These documents must be submitted at least 6 weeks prior to the application deadline. Syllabi and supporting documents will be reviewed by selected SON faculty and Office of Student Services staff for the purpose of evaluating course equivalency to University of Louisville SON courses. Course equivalency must be confirmed prior to admissions. When courses are approved, they become the course of record for that academic year. Nursing courses that have been approved for equivalency will remain equivalent for varying periods of time depending on the course. Nursing courses must be satisfactorily completed at an NLN or CCNE accredited nursing program in order to be considered as equivalent and transfer into the upper division curriculum.

If a student has a previous nursing course failure, it will be considered the first failure by the University of Louisville SON. One additional failure of a nursing course at the University of Louisville SON will result in dismissal from the program.

A student who has previously failed 2 nursing courses at any school of nursing will not be eligible for admission to the University of Louisville SON’s Traditional BSN program. RN–BSN applicants who have failed 2 previous nursing courses at any school of nursing will be evaluated on an individual basis.

**Academic Bankruptcy & Forgiveness & Fresh Start**

Academic Bankruptcy and Forgiveness (p. 70) policies allow students who are returning to college after an absence of two or more years to request the adjustment of their records for one or more entire semesters of previous college work, provided certain criteria are met. View information on Academic Bankruptcy and Forgiveness (p. 70) and the new Fresh Start (p. 70) policy.

**International Student Applicants**

Please refer to the university guidelines printed in this catalog regarding International Student Applicants.

**Admission to the School of Public Health and Information Sciences**

Public Health Undergraduate Affairs
Admissions Requirements

Students are admitted to the School of Public Health and Information Sciences on either a degree seeking or non-degree seeking basis. High school visitors, visiting students from other institutions, auditors, post baccalaureate students, and continuing studies students are considered non-degree seeking. All other students are considered degree seeking. Applicants will be notified by the University's Office of Admissions of their status and of the conditions of their enrollment at the time they are accepted. Students planning to earn degrees from the School of Public Health and Information Sciences must be degree-seeking in order for the credits they have earned to apply toward their degrees. Students remain in a degree-seeking status until they graduate, transfer to another college or university, or are suspended/dismissed.

Freshman Students

Admission is granted to students meeting the following requirements:

Good Standing

One of:

- Graduation from accredited high school
- Successful completion of General Education Development (GED) tests

High school GPA of 2.5 or higher

Pre-college curriculum (PCC) GPA of 2.5 or higher (Note: pre-college curriculum (PCC) criterion are waived for applicants who are non-resident, 21 years of age or older, or international. PCC is described in Undergraduate Catalog, Admission to the University of Louisville (p. 19)).

One of:

- ACT/SAT score of 21/980 or higher
- ACT/SAT score of 19/940 or higher AND PCC GPA of 3.0 or higher (Note: Criterion is not available to applicants who are non-resident, 21 years of age or older, or international.)

Conditional Admission

Conditionally-admitted students have post-matriculation requirements and restrictions discussed below under Conditionally Admitted Students.

Above but with college GPA under 2.0 and one of:

- Only one college term taken
- Approved petition to Public Health Appeals Committee

Transfer Students with Fewer Than 24 Credit Hours

Good Standing

College GPA of 2.0 or higher

One of:

- Graduation from accredited high school
- Successful completion of General Education Development (GED) tests

High school GPA of 2.5 or higher

Pre-college curriculum (PCC) GPA of 2.5 or higher (Note: pre-college curriculum (PCC) criterion are waived for applicants who are non-resident, 21 years of age or older, or international. PCC is described in Undergraduate Catalog, Admission to the University of Louisville (p. 19)).

One of:

- ACT/SAT score of 21/980 or higher
- ACT/SAT score of 19/940 or higher AND PCC GPA of 3.0 or higher (Note: Criterion is not available to applicants who are non-resident, 21 years of age or older, or international.)

Conditional Admission

Conditionally-admitted students have post-matriculation requirements and restrictions discussed below under Conditionally Admitted Students.

Transfer Students with 24 Credit Hours or More

Good Standing

College GPA of 2.0 or higher

Conditional Admission

Conditionally-admitted students have post-matriculation requirements and restrictions discussed below under Conditionally Admitted Students.

Petition approved by Public Health Appeals Committee.

Post-Baccalaureate Students

Good standing

Degree posted

Kentucky Public Health Worker (not meeting criteria for any of the above categories)

Conditional Admission

Conditionally-admitted students have post-matriculation requirements and restrictions discussed below under Conditionally Admitted Students.

One of:
Students are admitted to the J.B. Speed School of Engineering by October 1 to enroll in the following Spring semester or May 15 to enroll in the following Fall semester.

In addition to the minimum grade requirements for Calculus I, General Chemistry I and Physics I, the Speed School of Engineering requires a minimum C-minus grade for any transferred course to be accepted as credit toward a degree. A transfer student must earn at least sixty semester hours applicable toward the baccalaureate degree at a fully accredited four-year college or university. Thirty of the last thirty-six semester hours must be earned at the University of Louisville and at least 25 percent of the degree program hours must be earned at University of Louisville.

Admission Status
Successful applicants who satisfy all Speed School requirements will be granted unconditional admission with a Good Standing status. If there is a deficiency in academic qualifications, successful applicants will be admitted to the College of Arts and Sciences in a pre-engineering curriculum.

Credit-by-Exam
A student who was conditionally admitted is required to:

- Register for no more than 13 credit hours of coursework in the first semester and each semester thereafter until removed from conditional status.
- Obtain approval of the student’s academic advisor regarding courses for which they are eligible to enroll prior to registration.

A student is removed from conditional status after meeting each of the following:

- Successful completion of PHPH 100 Majoring in Public Health
- Successful completion of any required developmental courses
- University GPA of 2.0 or higher

Admission to the J.B. Speed School of Engineering

J.B. Speed School of Engineering
J.B. Speed Building, Suite 221
University of Louisville
Louisville, Kentucky 40292

Phone: (502) 852-6281
Email: speed@louisville.edu
Web: louisville.edu/speed

Admission Requirements
Students apply for admission to the J.B. Speed School of Engineering by completing a University of Louisville undergraduate application. The application and detailed directions are located online at louisville.edu/admissions/apply.

Students are admitted to the School of Engineering on either a degree seeking or non-degree seeking basis. High school visitors, visiting students from other institutions, auditors, post baccalaureate students, and continuing studies students are considered non-degree seeking. All other students are considered degree seeking. Applicants will be notified by the University’s Office of Admissions of their status and of the conditions of their enrollment at the time they are accepted. Students planning to earn degrees from the School of Engineering must be degree seeking in order for the credits they have earned to apply toward their degrees. Students remain in a degree-seeking status until they graduate, transfer to another college or university, or are suspended/dismissed.

Freshmen Students
Admission requirements vary between the different schools in the university. A student is eligible for admission to the academic programs of the School of Engineering upon the basis of courses taken in high school, grade-point average, and test scores achieved on either the ACT or SAT. To be considered for unconditional admission to the J.B. Speed School of Engineering, entering freshman students should meet the following requirements.

- High School Curriculum Requirements: All schools require graduation from an accredited high school and completion of the Kentucky Pre-College Curriculum requirements. In addition, Speed School requires successful completion of the following courses in high school:
  - Calculus or pre-calculus
  - Chemistry
  - Physics
  - ACT composite, science and math scores of 25 OR SAT combined CR +M score of 1130 and math score of 590. A 3.0 GPA on a 4.0 scale OR
  - ACT composite, science and math scores of 24 OR SAT combined CR +M score of 1090 and math score of 560. A 3.5 GPA on a 4.0 scale

Transfer Students
Students with fewer than 24 transferable semester hours are considered in a similar fashion as freshman students and must meet the admissions requirements for new freshmen and have a minimum college grade point average of 2.8. Students with 24 hours or more transferable semester hours must have a 2.8 college grade point average and at least B-minus grades in each of the following courses: Calculus I (MATH 205 or equivalent), General Chemistry I (CHEM 201 or equivalent), and Physics I (PHYS 298 or equivalent).

Transfer students must be admitted to the J.B. Speed School of Engineering by October 1 to enroll in the following Spring semester or May 15 to enroll in the following Fall semester.
Good Standing

Freshman students (and transfer students with less than 24 hours) who satisfy all requirements will be granted unconditional admission into the Department of Engineering Fundamentals with a Good Standing status. After one year in engineering fundamentals qualified students will be accepted into their major department. Transfer students who have completed all courses required by engineering fundamentals will be admitted directly into their major department.

Arts & Sciences Pre-engineering

Applicants who do not meet high school curriculum requirements for Speed School or are below grade point average or test score requirements, but still satisfy university admission requirements, will be admitted to Arts and Sciences in a pre-engineering curriculum. The pre-engineering curriculum prepares students for the mathematics and sciences courses in the Speed School curriculum. Students who complete the pre-engineering curriculum with at least B-minus grades in MATH 205, CHEM 201, and PHYS 298 and have a cumulative grade point average above 2.8 will be considered for an intra-university transfer to Speed School.

Pre-engineering students must be admitted to the J.B. Speed School of Engineering by October 1 to enroll in the following Spring semester. A priority deadline of September 1 will afford students the best opportunity to register for available Spring courses.

Pre-engineering students must be admitted to the J.B. Speed School of Engineering by May 15 to enroll in the following Fall semester. A priority admission deadline of March 1 will afford students the best opportunity to register for available Fall courses.

Readmission

If a student has a break in enrollment of two or more calendar years, the student must apply for readmission by completing a University of Louisville undergraduate application. If admitted, the student will be subject to catalog requirements in effect at the time of readmission.

Non-degree Students

High school visitors, visiting students from other institutions, auditors, post baccalaureate students, and continuing studies students wishing to take courses offered by the School of Engineering must complete a University of Louisville undergraduate application. Upon admission, students may enroll in classes for which they have completed the prerequisites or by faculty permission. The credits earned by non-degree students typically will not apply towards program requirements if a student later becomes a degree seeking student.

Admission Requirements to Departmental Studies

A formal application for acceptance to departmental studies should be made during the semester in which the student will complete the core courses in engineering fundamentals. The application form, which indicates the student’s choice of specialization, is available from the engineering fundamentals advising office and should be returned to the office. Students are notified after semester grades are posted and qualifications are confirmed.

Acceptance into departmental studies is based upon requirements in effect when the student is admitted to engineering fundamentals. Current requirements are that a student must have a 2.25 grade point average (GPA) in the prescribed set of core courses. In addition, the student must be in good standing with the University, which requires an overall cumulative GPA of 2.25.
Campus Maps
Go to Campus Maps (http://louisville.edu/about/campuses.html) to view a current maps of all three (3) of the University of Louisville’s campuses.

Go to University Parking and Transportation Services (http://louisville.edu/parking/campus-maps) for information on UofL employee and student parking, as well as visitor parking.

Take a virtual tour (http://www.youvisit.com/tour/louisville) of the main, Belknap campus.
ACADEMIC SUPPORT

University Libraries

The extensive library system at the University of Louisville is designed to support undergraduate and graduate research; broad, university scholarship; and student and faculty success.

To these ends, the University Libraries provide services ranging from materials check-outs, research assistance, interlibrary loans and course reserves to loans of laptops, camcorders and flash drives. The libraries also provide study spaces, meeting rooms and presentation spaces. They house UofL resources like the Writing Center, the Delphi Center, and the TILL. Ultimately, University Libraries serve as academic common spaces for all students, faculty, and staff.

The University Libraries consist of:

- Ekstrom (Main) Library,
- Archives and Special Collections,
- The Margaret Bridwell Art Library,
- The Louis Brandeis Law Library,
- The Dwight Anderson Memorial Music Library, and
- The Kornhauser Health Sciences Library.

The Libraries’ collections are extensive. Total holdings exceed 2.2 million printed volumes; subscriptions to both print and electronic journals surpass 90,000. E-books, microfilm, and other formats such as DVDs are also included in the collection. Most of these materials can be found using the library’s website: louisville.edu/library.

In addition, the Libraries subscribe to over 300 online information databases in a wide variety of subject areas.

Interlibrary loan services provide study and research materials not owned by the University of Louisville Libraries from collections of other libraries.

For more information about the university’s libraries go to louisville.edu/undergraduate/about/libraries/.

Information Technology Services

The Office of Information Technology (IT) offers numerous direct technology, computing and printing solutions in support of University of Louisville’s teaching, research and service missions. Serving students, faculty and staff, IT maintains campus wired and wireless networks and delivers enterprise administrative and academic applications. More information concerning IT services can be found at louisville.edu/it.

The university’s most popular websites feature University of Louisville’s email and ULink services. Students can log into their email as part of the Windows Office 365 tools provided to enrolled students at louisville.edu/email. A secure portal to the university’s information and services, ULink, connects students, faculty and staff to all of the necessary campus and administrative environments.

IT runs an online technology store, iTech Express, with discounted software and downloads, and links to competitively-priced computers for students, faculty and staff. Check it out online at: louisville.edu/it/itechexpress.

IT’s HelpDesk assists the University of Louisville community daily with regard to technology questions and issues. The IT HelpDesk can be reached at (502) 852-7997 or louisville.edu/it/helpdesk for online assistance. Additionally, IT’s iTech Connect provides free face-to-face technology consulting for students, faculty and staff. Located in the lower level of the Miller IT Center on Belknap campus, iTech Connect can help troubleshoot various technology problems like wireless connections, antivirus protection and digital device management.

On each campus, multiple computing centers and labs provide access to academic software and the Internet. iTech Zone, in the lower level of the Miller IT Center, is a primary computing facility with individual workstations and collaborative work areas on the Belknap campus. At this location IT offers, through a partnership with REACH, peer tutoring on general computing essentials, Microsoft software and basic computer programming. Additional public workstations are located throughout University of Louisville in high-traffic locations for email and Internet access.

IT maintains the university’s extensive networking, including a 40 gigabit campus backbone network and a high-speed intercampus fiber network. Telephone services are provided through a voice over IP system equipped with emergency alerts. The university has access to high-speed Internet service through a 10Gbps connection to Internet2, the Kentucky Regional Optical Network (KyRON) and a 2Gbps Internet link to TWTelecom. Wireless Internet service is universally available for University of Louisville students, faculty and staff and guests across all campuses.

REACH (Resources for Academic Achievement)

Resources for Academic Achievement (REACH) is the university’s centralized academic support unit for undergraduate students. REACH conducts multiple services and programs from the Belknap Academic Classroom Building (BABC), Ekstrom Library, and the Miller Information Technology Building (MITC).

These academic support services and retention programs offer students the opportunity to better prepare and adapt to college life and to improve their academic skills and performance in college courses. REACH’s mission statement, values statement, goals, and annual reports are available at: reach.louisville.edu/about

The Learning Resource Center (BABC 248, 250)

Scheduled Tutoring offers students small group tutoring sessions each week for many 100-, 200-, and some 300-level courses. These sessions provide guided study and review of course material. Tutoring requests can be submitted online and appointments are scheduled for 60-minute recurring, weekly sessions. Online tutoring sessions are also available,
and scheduled drop-in hours are available for select science lab courses, select languages, and other courses.

Find more information at: reach.louisville.edu/tutoring/tutor-scheduled.html

**Supplemental Instruction (SI)** is a series of weekly review and discussion sessions attached to specific courses that are historically difficult for students. SI integrates *how to learn with what to learn*. SI sessions allow students to get extra help beyond the normal classroom. SI is voluntary and free, with sessions designed to assist small and large groups of students.

Find more information at: reach.louisville.edu/tutoring/tutor-SI.html

**Individual Tutoring** is available for students who have documented physical or learning disabilities and need accommodated tutoring sessions. Documentation must be provided to REACH from the Disability Resource Center at the time of a student’s request. Students receive individualized tutoring and additional tutoring time in scheduled onsite appointments each week.

Find more information at: reach.louisville.edu/tutoring/graduate/

**Language Conversation Tables** offer students conversation opportunities for practice in speaking a new language. Tables vary each semester, but may include Spanish, French, Arabic, ASL, German, and others. These sessions are useful, additional practice to prepare for the classroom and real-world scenarios.

Find more information at: reach.louisville.edu/tutoring/computer/

Special Topics in Supplemented College Reading (GEN 105) (BACB 248) is an intervention course for college readiness required by Kentucky state law for first-time, first-year and transfer students with less than 24 credit hours who are admitted to the university with identified college reading deficiencies. Students are required to register for a section of GEN 105 (1 credit hour) in their first college semester. All GEN 105 course sections require concurrent registration with a linked general education course in Biology, Psychology, or History.

Find more information at: reach.louisville.edu/courses/gen105.html

**The Hackademic Series**, available to all UoL students, are 50-minute workshops on key topics that impact students’ academic success. Topics always include college strategies, e.g., time management, note-taking, textbook reading, test-taking, preparing for finals, and becoming a disciplined student. The Hackademic Series is offered both online and on-site.

Find more information at: reach.louisville.edu/seminars/seminars.html

**The Math Resource Center (BACB 241)**

The Math Resource Center (MRC) offers drop-in tutoring to students enrolled in most 100 and 200 level university mathematics courses, Special Topics in College Mathematics courses (GEN 103 and GEN 104), and JCTC Pathways courses offered onsite at the university. Resources include knowledgeable tutors, a mini-computer lab for mathematics software and Web-based instruction, course textbooks, and solution manuals. The MRC also offers online tutoring appointments for select math courses.

Find more information at: reach.louisville.edu/tutoring/tutor-drop-in.html

**The Speed Calculus Preview Program** is a fee-based summer program designed for first-year engineering students. Students are referred to this program based on scores earned on the online Algebra Readiness Exam available to all admitted engineering students prior to their first fall semester. This program provides an advanced algebra review to help students prepare for calculus in the J.B. Speed School of Engineering.

Find more information at: reach.louisville.edu/summermath/speed-calculus-preview-program-1

**Special Topics in College Mathematics** (GEN 103/GEN 104) are intervention courses for college readiness required by KY state law for students who are admitted to the university with identified college mathematics deficiencies. Placement in Supplemented or Regular GEN 103 (for non-STEM majors) or GEN 104 (for STEM majors) is based on successful completion of a basic mathematics course (e.g., MAT 55 or MAT 65 in KCTCS), ACT or SAT Math subscore, or a placement test score that does not meet the requirement for the general-education MATH course for the student’s intended major. GEN 103 and GEN 104 are computer-based courses (one elective-credit hour each) that focus on algebra topics—such as linear equations and factoring—and utilize an online homework, tutorial, and assessment program. Successful completion of Supplemented or Regular GEN 103 and/or GEN 104 is required for entry to general-education mathematics courses.

Find more information at: reach.louisville.edu/courses/computer/

**Computer Resource Centers**

The Computer Resource Center (CRC) tutors help students understand the most common technologies used on campus, including Microsoft Office Suite products, Blackboard, ULink, email, wireless network access, password assistance, and basic computer operations. CRCs are located in Ekstrom Library and in the Miller Information Technology Center (MITC).

Tutoring and test review sessions are provided for College of Business courses in Computer Information Sciences (CIS 100 through 300) on topics in C# programming, MS Excel, and MS Access. The CRC also supports Speed School of Engineering courses in Computer Engineering and Computer Science (CECS) by assisting students with C, C++, and Java programming. No appointments needed.

Find more information at: reach.louisville.edu/tutoring/computer/
Americans with Disabilities Act

The University of Louisville is committed to providing equal opportunity for persons with disabilities. This commitment includes complying with the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973.

In addition, all of the University’s websites and online courses will comply with the webpage design standards established by the World Wide Web Consortium (W3C). The University of Louisville strives to maintain a barrier-free, welcoming environment for all qualified persons with disabilities.

The university’s ADA Coordinator, oversees the University’s compliance with the ADA and Section 504, and assists unit heads in meeting their equal opportunity obligations. The ADA coordinator is located in the Dean of Students suite in the SAC:

ADA Coordinator
Brian Bigelow
SAC-W301
(502) 852-5787

The Disability Resource Center staff (502 852-6938) will assist the University community by serving as an information resource center and coordinating support services for students with disabilities. No otherwise qualified individual with a disability shall, solely by reason of such disability, be excluded from participation in, be denied benefits of, or be subjected to discrimination in university programs. The President, Board of Trustees, Student Government, Faculty and Staff Senates affirm UofL’s long standing and continuing commitment to Equal Opportunity for Americans with Disabilities.

The university has a continuing responsibility to monitor and maintain its compliance with the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973 (Section 504) and their implementing regulations. Internal student complaints alleging non-compliance with the ADA and/or Section 504 should follow the following procedure.

The university’s formal complaint procedure provides for prompt and equitable resolution of complaints.

Complaints should be directed to the UofL ADA Coordinator, Brian Bigelow, (502) 852-8757, or brian.bigelow@louisville.edu

Filing a formal complaint of disability discrimination

A complaint must be filed in writing with the Coordinator. The complaint should contain the name and address of the person filing it and a brief description of the alleged violation. Upon receipt of the written complaint, the Coordinator or his designee shall acknowledge receipt within five workdays.

A complaint should be filed within 180 days after the complainant becomes aware of the alleged violation; however, a complaint filed after that point may be investigated in accordance with this procedure as necessary, in the judgment of the ADA Coordinator, to ensure the university’s compliance with the ADA and/or Section 504.

An investigation, as may be appropriate, shall follow a filing of complaint. The Coordinator’s office shall conduct the investigation. This University complaint procedure involves an informal but thorough investigation, affording all interested persons and their representatives, if any, an opportunity to submit information relevant to a complaint. The Coordinator will complete the investigation within 45 days of the receipt of the complaint wherever practicable.

Following completion of the investigation, a written determination as to the validity of the complaint and a description of the resolution, if any, shall be issued by the Coordinator’s office and a copy forwarded to the complainant and any individually-named respondent within 60 days of the date the complaint was filed. Should extenuating circumstances (e.g., unavailability of key witnesses, family emergency of investigative staff, etc.) prevent completion of the investigation and determination process within 60 days, the complainant and any individually-named respondents will be timely notified in writing, and will be kept apprised of the status of the Coordinator’s handling of the complaint through resolution. In all disputes arising under Section 504 or the ADA the proper standard of proof is preponderance of the information (i.e., more likely than not that the violation alleged in the complaint is true).

The Coordinator’s Office shall maintain the files and records relating to the complaints filed.

Requesting Reconsideration of a Determination

The complainant (and any individually named respondent, as appropriate) may request a reconsideration if dissatisfied with the Coordinator’s determination. The request for reconsideration should be made in written or electronic form within 15 workdays to the Coordinator’s Office.

Requests for reconsideration must present information showing that:

• The original determination applied the incorrect standard or applied the applicable standard incorrectly to the facts of the case; or

• New information that might affect the outcome of the determination but was not available to the Coordinator at the time of the original determination is now available and should be considered.

The Coordinator shall, barring extenuating circumstances that preclude a more timely response (in which case the complainant shall be updated as to the status of the reconsideration request), rule upon the request for reconsideration within 15 workdays after receipt of the request.

An Internal ADA complaint does not preclude other remedies.

The right of a person to a prompt and equitable resolution of the complaint filed hereunder shall not be impaired by the person’s pursuit of other remedies such as the filing of a discrimination complaint with the responsible federal department or agency. Use of this complaint procedure is not a prerequisite to the pursuit of other remedies, nor
All students enrolled in a program of study that requires them to train in the University’s Affiliated Hospitals such as the MD, DMD, Dental Hygiene, Audiology, and Speech Pathology programs are required to carry major medical insurance and pay a non-waivable Health Professionals Health Fee (HPHF). Students in these programs are charged for the university-sponsored insurance plan but may waive it with proof of alternate coverage. A university-sponsored student insurance plan which complies with the Affordable Care Act (ACA) is available for students to purchase.

For additional information about Campus Health Fees, contact the Insurance Advocate via email at stuins@louisville.edu or visit louisville.edu/campushealth/information/fees/primary-care-health-fee

**Campus Insurance Advocate**
Cardinal Station
215 Central Ave. Suite 110
(502) 852-6519

**Office of Health Promotion and Education**
Campus Health Services Office of Health Promotion provides a variety of health education programming and services, which include yoga, stress/sleep management, free HIV and syphilis testing, sexual health workshops, healthy eating, cooking skills, smoking cessation, massage therapy, and physical fitness testing.

**Office of Health Promotion and Education**
Campus Health Services
Student Activities Center
2100 South Floyd Street, room W309
(502) 852-5429

For additional information about Campus Health Services Office of Health Promotion, visit louisville.edu/healthpromotion

**PEACC—Sexual Assault and Domestic Violence Program**
**Prevention, Education, and Advocacy on Campus and in the Community**
The PEACC Center believes that every student has the right to live, learn, and love free of violence and fear. PEACC provides services and programs that address power based personal violence such as dating violence, stalking and sexual assault. Students who have been directly impacted by personal violence can access free and confidential support, resources and referrals, and a survivor’s network. Services are confidential to the limits provided by law.

In addition, the PEACC Center aims to prevent power based personal violence by offering training, community discussions, art and activism projects, and awareness events like the Take Back the Night annual march and rally.

**The PEACC Center**
Campus Health Services
2100 South Floyd Street
Student Activities Center Room 309 H

For more information about the PEACC Center’s programs and events please call (502) 852-2663 or visit louisville.edu/peacc.
Campus Housing
Campus Housing promotes a safe, convenient, inclusive and healthy living-learning environment, providing opportunities that engage students, facilitate student and faculty connections and encourage student success.

For information about on-campus and off-campus options, please contact the Campus Housing office via one of the following:

Website: louisville.edu/housing/
Phone: (502) 852-6636
Email: oncampus@louisville.edu

Career Development Center
The Career Development Center at the University of Louisville assists University of Louisville students and alumni in the process of exploring, deciding, and managing their unique career goals during college and after graduation. Whether a freshman or senior, graduate student or alumnus, the earlier you become familiar with the Career Development Center the sooner you’ll be on your path to career success in today’s competitive workplace.

How Can We Help?
Our professional staff can meet with you one-on-one to help you choose a major and a potential career path. The Cards Career Navigator program delivers this assistance to first year students. The Career Decision Making course (GEN 201), a 1 credit-hour course for all majors, is available in the Fall/Spring semesters to assist with career decision-making.

Exploring Majors and Careers
The Career Development Center provides specific services to help you choose a major and a potential career path. The Cards Career Navigator program delivers this assistance to first year students. The Career Decision Making course (GEN 201), a 1 credit-hour course for all majors, is available in the Fall/Spring semesters to assist with career decision-making.

Resumes and Cover Letters
Resumes and cover letters are important documents for your job search that work together to help you secure an interview. We can help you develop a customized document that tells your career story on paper in an efficient way.

Job Search Using Cards Career Connection
Cards Career Connection powered by Handshake, a career development platform exclusively for UofL students and alumni, lists part-time jobs on and off campus, full-time, internships and co-ops, for all majors — both entry level and experienced. Visit louisville.edu/career and click “Find Jobs & Internships” or “Cards Career Connection” to login with your ULink ID and password.

Internships
Internships are essential “resume-building” experiences in today’s job market and help you to apply what you’ve learned in the classroom. The Career Development Center is here to help you find the opportunity that best fits you and your professional goals. Most experiences are paid and can even be applied toward academic credit.

Practice Interviewing
Great resumes get interviews and great interviews land jobs. Let us help you practice your interviewing skills, either in a personalized appointment or through our online video interviewing tool, Interview Stream.

Building Career Connections
It’s not just what you know, it’s also who you know. The Career Development Center can help you develop a strategy to expand your network based on connections with those you already know, professional associations relevant to your field and through a presence on social media sites like LinkedIn®.

Customized Presentations and Events
The Career Development Center can provide your class, registered student organization (RSO), Greek organization or class with a tailored presentation on valuable career topics such as resume and cover letter writing, interviewing skills, importance of internships, social media and professionalism and workshops for specific student populations. Visit our homepage, scroll to the bottom and click “Request a Workshop” at louisville.edu/career.

Graduate and Professional School
The Career Development Center can assist you with the selection and application process and help you develop the knowledge and skills needed to manage a successful grad or professional school application.

How to Get Started?
Make an appointment with an Assistant Director by calling (502) 852-6701 or by setting up an appointment online at louisville.edu/career.

Where are We Located?
University of Louisville Career Development Center
Houchens Building, Lower Level (LL 03)

or online at:

- louisville.edu/career
- twitter.com/UofLCareers (https://twitter.com/UofLCareers)

Counseling Center
The mission of the Counseling Center is to provide services and programs that support the psychological well-being, holistic development, and retention of University of Louisville students. The Counseling Center provides short term individual, group, and couples counseling, outreach, urgent consultation, and psychological testing for currently enrolled students (psychiatric services are provided by Campus Health).

Our clients seek services for a variety of areas of concern, including psychological, personal/social, academic, and career issues.
There is a fee for psychological testing, but all other services are covered by your student fee. Services are confidential to the limits provided by law.

We are committed to diversity in the provision of services and in supporting the University community, while honoring the unique needs and concerns of individuals and traditionally underrepresented groups.

The Disability Resource Center coordinates services and programs for students and prospective students with disabilities. Accommodations and support services are individualized, depending on the needs of each student. Services and programs are designed to assure access for qualified students with disabilities to all programs and activities of the university.

Students are strongly encouraged to make early contact with the Disability Resource Center to assure adequate time to implement support services.

Please contact the Disability Resource Center at (502) 852–6938 or visit our webpage at louisville.edu/disability.

Drug-Free Schools and Campuses


Purpose and Goal

The University of Louisville is committed to protecting the safety, health and wellbeing of all students, faculty, and staff and other individuals in our workplace. As a recipient of federal grants and contracts, the university gives this notice to students, faculty, and staff that it is in compliance with the Drug-Free Workplace Act of 1988 (Pub. L. 100-690, Title V Subtitle D) and the Drug-Free Schools and Communities Act Amendment of 1989. Students, faculty and staff are herein notified of the standards of conduct that will be applicable while on university property, business, and/or at university-sponsored activities. This policy is incorporated and is a part of the official University of Louisville Policies and Procedures.

This policy recognizes that student, faculty, and staff involvement with alcohol and other drugs can be very disruptive, adversely affect the quality of work or academic performance of student, faculty, and staff, pose serious health risks to users and others, and have a negative impact on productivity and morale.

As a condition of employment or enrollment, the university requires that students, faculty, and staff adhere to a strict policy regarding the use and possession of drugs and alcohol. The university encourages students, faculty, and staff to voluntarily seek help with drug and alcohol problems.

Prohibited Behaviors

Under university regulations, federal law, state law, and, in some instances, local ordinance, students, faculty, and staff are prohibited from the unlawful possession, use, dispensation, distribution, or manufacture of illicit drugs on university property, on university business and/or at university-sponsored activities. Under this policy, students, faculty and staff are required to abide by state laws concerning alcoholic beverages.

Kentucky law (KRS 244.085: lrc.ky.gov/Statutes/statute.aspx?id=45137) states that, if one is under the age of 21, it is unlawful to:

• Possess or consume alcoholic beverages,
• Misrepresent one's age for the purpose of purchasing alcoholic beverages, or
• Use a fake ID in an attempt to purchase alcoholic beverages.

It is unlawful for anyone of any age to:

• Procure any alcoholic beverages for anyone under 21 years of age,
• Drink or be intoxicated in a public place


University campuses and buildings are considered as public places for purposes of these laws, except for a facility licensed to serve alcoholic beverages, and a facility used as a private residence, unless university regulations state otherwise. Ordinances of the Greater Louisville area parallel the state laws.

The specifically defined standards of conduct, the disciplinary procedures, and the appropriate sanctions are detailed in the Code of Student Conduct (p. 87). Personnel Policies and Procedures (PER-5.01), Staff Handbook (Disciplinary Action, page 8.2) and The Redbook.

In addition, it is a violation of state law to operate a motor vehicle while under the influence of any substance that may impair one's driving ability (drugs or alcoholic beverages).

Prescription and over-the-counter drugs are not prohibited when taken in standard dosage and/or according to a physician's prescription. Any student, faculty, and staff taking prescribed or over-the-counter medications will be responsible for consulting the prescribing physician and/or pharmacist to ascertain whether the medication may interfere with job or academic performance.

The illegal or unauthorized use of prescription drugs is prohibited. It is a violation of our drug-free workplace to intentionally misuse and/or abuse prescription medications. Appropriate disciplinary action will be taken if job or academic performance deterioration and/or other accidents occur.

Consequences for Violating This Policy

Under university regulation, students who violate this standard of conduct are subject to student conduct action from a warning to
becoming alcoholics. That children of alcoholic parents are at greater risk than other children of abnormalities and intellectual disabilities. In addition, research indicates with fetal alcohol syndrome. These infants have irreversible physical Mothers who drink alcohol during pregnancy may give birth to infants alcohol, particularly when combined with poor nutrition, can also lead to consumption and use of drugs may alter behavior, distort perception, impair thinking, impede judgment, and lead to physical or psychological dependence.

Alcohol and/or drug use may lead to the deterioration of physical health by causing or contributing to various health conditions including but not limited to fatigue, nausea, personal injury, insomnia, pathological organ damage, some forms of cancer, pancreatitis, heart attack, respiratory depression, birth defects, convulsions, coma, and even death. Alcohol and drug use may also result in deterioration of mental health by causing or contributing to various conditions such as increased aggression, hallucinations, depression, disorientation, and psychosis.

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increases the incidence of a variety of aggressive acts, including spouse and child abuse.

Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person’s ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described. Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and intellectual disabilities. In addition, research indicates that children of alcoholic parents are at greater risk than other children of becoming alcoholics.

Training, Counseling, and Resources
The University of Louisville is committed to the overall health and well-being of students, faculty, and staff and encourages a compassionate university.

AlcoholEdu and Haven online prevention programs
AlcoholEdu alcohol prevention program and Haven sexual violence prevention program serve as starting points for ongoing campus prevention efforts. Every incoming undergraduate student is required to take AlcoholEdu (up to age 21) and Haven (all ages). Emails are sent to their UofL email account (beginning about 5 weeks before their first semester begins) to provide specific directions for logging on to AlcoholEdu and Haven. AlcoholEdu and Haven are two separate programs, each with two parts. There is no fee for either program.

Visit louisville.edu/campushealth/alcoholedu-haven for more information.

Kentucky Medical Amnesty Law
KRS 244.992 Medical amnesty for persons reporting an alcohol overdose:

1. Requests emergency medical assistance for himself or herself or another person;
2. Acts in concert with another person who requests emergency medical assistance; or
3. Appears to be in need of emergency medical assistance and is the individual for whom the request is made

See KRS 244.992 at lrc.ky.gov/statutes/statute.aspx?id=42516 for full text.

Good Samaritan Consideration
The health and safety of our students is of the highest priority. At times, students may need immediate medical or other professional assistance. However, students may be reluctant to get help because of concerns that their own behavior may be a violation of the Code of Student Conduct (p. 87). Although policy violations cannot be overlooked, the University will consider the positive impact of reporting an incident when determining the appropriate response for policy violations.

Continuous efforts are made to make students, faculty, and staff aware of programs that provide information and professional services on matters related to the abuse of alcohol and drugs.

The University Counseling Center and other university-related programs, each with two parts. There is no fee for either program.

Visit louisville.edu/campushealth/alcoholedu-haven for more information.

University of Louisville
with alcohol and substance use concerns are provided with support, appropriate therapeutic interventions, and referrals when necessary.

- Building Resilience in Campus Community (BRICC) Coalition: (502) 852-3442; louisville.edu/bricc
- Campus Health Services: (502) 852-6479; louisville.edu/campushealth
- Counseling Center: (502) 852-6585; louisville.edu/counseling
- Health Promotion Office: (502) 852-5429; louisville.edu/healthpromotion
- The PEACC Center: (502) 852-2663; louisville.edu/peacc
- University of Louisville Police Department: (502) 852-7233; louisville.edu/police

Find Your Fit (FYT)

Find Your Fit (FYF) is the university’s current Quality Enhancement Plan (QEP) as required by its accrediting agency, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). FYF was launched in 2017 as an opportunity to foster a campus-wide conversation about student learning and success in the crucial second year of undergraduate studies. At the heart of this initiative is the design, implementation, and assessment of a new three-credit elective seminar, ECPY 302 Seminar on Personal and Academic Inquiry offered through the Department of Counseling and Human Development (ECPY), College of Education and Human Development.

This small seminar experience is designed for second-year undergraduate students who are undeclared, are pre-unit majors, or are in transition between majors. Students will explore an academic topic or theme of personal interest related to the seminar theme as they develop, complete and present their work on an original inquiry project. They will also engage in a variety of individualized and group activities to assist them in choosing a major and career path. Students will document their journeys and produce an Academic and Personal Plan in which they integrate their new knowledge and insights about the seminar topic, themselves, and their major and career trajectories.

Find Your Fit builds on the university’s prior QEP Ideas to Action (i2a, louisville.edu/ideastoaction), which focused on fostering students’ ability to think critically. The university has integrated key components of Ideas to Action into the undergraduate curriculum and experience. As we help our students “find their fit” academically and align their goals with a career path, UofL’s QEP project is poised to have long-term implications for how we support our students inside and outside the classroom.

For more information about FYF and ECPY 302, visit the Find Your Fit website: louisville.edu/findyourfit.

International Center

The International Center is the university-wide clearinghouse of information and resources for UofL faculty, students, and researchers involved in academic exchanges, overseas “live and learn” opportunities, and academic research.

The International Center promotes energetically the internationalization efforts of the University. It provides advice and counsel to UofL faculty, students, and researchers traveling abroad and assistance to international students, faculty, and researchers coming to UofL for study or work.

Interested individuals can email the International Center intcent@louisville.edu or visit louisville.edu/internationalcenter.

Off-Campus Student Services

The Student Involvement Department provides opportunities for students who reside off campus to become engaged and connected to the university community through various programs and services. Through student organizations, events, and services, off-campus students can fully participate in the university.

The off-campus student lounge in Davidson Hall, Room 105, and the Student Activities Center provide services and the “living room” areas for off-campus students. Whether enrolling in one class or embarking on a new career, these areas provide students with a friendly, supportive environment where they may come for information, advocacy or a place to study or relax.

For more information, stop by and see us in the Student Activities Center Room W310 or give us a call at (502) 852-6691.

Testing Services

This office serves as a national and university testing agency.

Office Location:

Testing Services
Davidson Hall, Room 310
Louisville, KY 40292

Campus testing includes: UofL faculty make-up exams; placement exams (Math/Reading); credit by exam (CLEP); Correspondence exams; and CIS 250. The ACT, SAT, and LSAT are also administered through Testing Services.

Testing Service’s Prometric center offers individual computerized exams such as GRE, Praxis, and TOEFL. Registration materials are available online at louisville.edu/testing.
FINANCIAL INFORMATION

Financial Settlement

Continuing Registration
Tuition and fees are due on, or before, the designated due date for the semester. Payment Due Dates are noted on the Bursar web page at louisville.edu/bursar. Payment may be made by cash, paper check, money order, or financial aid credit. All electronic check (ACH) or Credit Card payments (transaction fee applies) may only be remitted electronically via the web payment portal. Payments also may be made by mail, by use of the deposit box located in the front entrance of the Houchens Building, or at the Office of the Bursar.

For Payment Option information visit: louisville.edu/bursar

Failure to receive a Statement of Account will not relieve the student of the responsibility for making financial settlement by the designated due date. Registrations which are not financially settled by the designated due date will be placed on financial hold and affected students will not be permitted to add or swap classes until their student account is financially settled.

The due dates are listed in the current Registration Information newspaper and on the Bursar’s website louisville.edu/bursar (Payment Due Dates).

Regular Registration
Students should be prepared to fully settle financial obligations by the last day to drop/add for the semester. Failure to fully settle financial obligations may result in financial penalties.

Financial Settlement Options
Due dates, payment information, payment plan options, and payment plan forms for specific semesters are updated regularly on the Bursar’s website: louisville.edu/bursar.

Please address your questions to the Bursar’s Office by email at bursar@louisville.edu.

Financial Penalties
Students whose accounts are not paid by established semester deadlines may be subject to financial penalties. Students with unpaid account balances will be placed on Financial Hold by the Bursar’s Office. Students placed on Financial Hold become ineligible for further registration and transcripts will not be released until the student account is paid in full.

A late payment fee of $100.00 may be assessed when student accounts are not paid by the last day to drop/add.

A student whose payment is not honored by the bank on which it was drawn may be assessed a return payment fee. If restitution is not made within 10 days of notification, the student may be subject to course cancellation and/or legal action.

Debtors who do not make satisfactory payment arrangements on their past due accounts may have their accounts placed with a collection agency. Students will be responsible to reimburse the University for the fees of any collection agency, which may be based on a percentage of the delinquent account balance (to a maximum of 40 percent of the delinquent account balance), and will also be liable for all reasonable attorneys’ fees and costs and expenses incurred by the University in its collection efforts. The University of Louisville, or associated vendor partners, may also report to the credit bureau organization(s) any information regarding any unpaid obligation.

Withdrawal Policy
The effective withdrawal date is the date on which the withdrawal is processed in the Student Records System. This date is used in calculating any applicable tuition reduction.

Tuition Reduction
When a student officially withdraws from the University or from any course, or courses, for which hourly tuition rates apply, tuition and student activity fee charges will be adjusted according to the tuition reduction schedule printed in the Registration Information newspaper. The full amount of tuition/fee charges for the semester will be due unless the withdrawal occurs during the tuition reduction period. The tuition reduction schedule for each semester is available on the Bursar’s website: louisville.edu/bursar (Tuition Adjustment Schedule).

This policy applies to all tuition and student activity fees except for nonrefundable deposits. Course fees, special fees, and laboratory fees are reduced only with the 100% adjustment.

Financial Aid Recipients
Determinations regarding refunds of resulting credit balances will be based on regulations governing the financial aid awarded to the student. Federal regulations mandate that students have the right to cancel all or a portion of an EFT loan.

To request cancellation of all or a portion of your loan, contact the Financial Aid Office in writing:

Financial Aid Office
University of Louisville
Louisville, KY 40292

Office of Student Financial Aid
The Office of Student Financial Aid serves prospective students, current students, and their parents with financial aid questions and needs.

Website: louisville.edu/financialaid
E-mail: finaid@louisville.edu
Call center: (502) 852-5511
Campus location: 110 Houchens Building, Belknap Campus
Website
On the Student Financial Aid website (http://www.louisville.edu/financialaid), visitors can access the following:

- Term-specific information on aid disbursement, residual funds, and financial aid advances;
- Financial aid news and upcoming important dates;
- Aid application and processing instructions;
- Award sources and types;
- UofL and outside scholarship postings;
- Consumer information.

E-Mail Service Account
Send your e-mail questions to finaid@louisville.edu. For specific account information, current students must e-mail the office from their UofL e-mail account. E-mail responses typically occur within 3 business days.

Call Center
Contact the call center at (502) 852-5511 from 9:00 a.m. to 5:00 p.m. Monday through Friday. On Thursdays, the call center opens at 12:30 p.m.

This service is intended to assist prospective students, current students, and parents with their general financial aid questions. We ensure students' privacy by not disclosing account-specific information. Current students should have their student ID number ready when calling.

Office Hours
The Student Financial Aid Office provides walk-in counseling to both current and prospective students Monday, Tuesday, Wednesday, and Friday from 9:00 a.m. until 5:00 p.m.

On Thursdays, the office and call center are open from 12:30 p.m. to 5:00 p.m.

Check the Student Financial Aid Office website (http://louisville.edu/financialaid) for special hours during the August and January class registration periods.

Residency for Tuition Purposes
Initial Determination and Deadline to Appeal
The initial determination of residency status is made during the admission process. A status may be appealed by filing an affidavit and documentation with the Registrar's office no later than 30 calendar days after the first day of classes of the term for which a determination of residency status is requested. Academic calendars are available on the university web site and with the Offices of Admission.

Pursuant to the residency regulation, 13 KAR 2:045 (http://www.lrc.ky.gov/kar/013/002/045.pdf), an institution may set other deadlines for submission of other information required by the institution in a determination of residency status. Information packets are available from the residency website (http://www.louisville.edu/residency).


Applications for Change in Residency Status and Appeals
Application for change in residency classification for purpose of tuition and fee assessment by a student enrolled in or an applicant to a program at the University of Louisville ("University") shall be made in writing to the residency appeals officer for initial consideration along with such information forms as the residency appeals officer may specify. The application for a change in residency classification must be filed no later than thirty (30) calendar days after the first day of classes of the academic term for which the change is requested. Appeals of residency determinations shall be based on administrative regulations promulgated by the Kentucky Council on Postsecondary Education. A written appeal of the decision of the residency appeals officer must be postmarked no later than fourteen calendar days from the date of receipt of notification of the residency appeals officer's written decision.

The Residency Review Committee is appointed by the executive vice president and provost (or designee) and shall be composed of four faculty and/or staff members and one student. The chairperson shall be elected by the committee. The faculty and/or staff members normally shall have staggered two-year appointments; the student member shall have a one-year appointment. The committee shall have authority to establish procedural rules and schedule meetings. A quorum shall consist of three members, and a quorum shall be necessary for committee action.

The Residency Review Committee shall consider appeals from applicants whose initial request for change in residency status has been denied by the residency appeals officer based upon the applicant's written appeal and the file in that matter to the extent provided by the Family Educational Rights and Privacy Act, 1974 (FERPA). The applicant shall be notified in writing as to the committee's decision.

If the decision of the committee is adverse to the applicant, the applicant may request a formal hearing by submitting a written request to the executive vice president and provost (or designee). This request must be postmarked no later than fourteen (14) calendar days from the date of receipt of notification of the committee's written decision.

The executive vice president and provost (or designee) shall appoint a hearing officer from outside the University to preside over formal residency hearings. Formal hearings shall be arranged based on a timely request from the applicant. The formal hearing shall provide for due process, including notice of hearing, examination of the information on which the University decision is based, and the right of an applicant to be represented by legal counsel and to present information and testimony in support of a claim of Kentucky residency. Hearing procedures will be consistent with 13 KAR 2:045 (http://www.lrc.ky.gov/kar/013/002/045.pdf).

The hearing officer shall make a report with findings of fact and a recommendation to the executive vice president and provost (or designee) with a copy to the applicant. The executive vice president and provost (or designee) will decide the appeal on the record on behalf of the University and the Board of Trustees and will notify the applicant in writing within thirty days of receipt of the hearing officer's report. In the event the decision of the executive vice president and provost (or designee) is not in accord with the recommendation and findings of the hearing officer's report, a written explanation will be provided to the applicant.

Council on Postsecondary Education Administrative Regulation
Relates to: KRS Chapter 13B, 164.020, 164.030, 164A.330(6).

Necessity, Function, And Conformity
KRS 164.020(8) requires the Council on Postsecondary Education to determine tuition and approve the minimum qualifications for admission
to a state-supported postsecondary education institution and authorizes
the council to set different tuition amounts for residents of Kentucky
and for nonresidents. This administrative regulation establishes the
procedure and guidelines for determining the residency status of a
student who is seeking admission to, or who is enrolled at, a state-
supported post-secondary education institution.
UNIVERSITY-WIDE ACADEMIC POLICIES

Clinking on the links listed below allows access to pages detailing broader areas of academic policy as well as individual pages devoted to specific policies.

These policies are effective August 20, 2018 (Fall 2018 semester). Students enrolled in a term before this effective date should consult with an advisor in their enrollment unit (http://louisville.edu/advising/centers) if they feel that they are disadvantaged by any change from 2017-18 policies.

Previous catalogs are available via the archive page of this catalog (p. 791). Reference copies of the university catalog are maintained by University Libraries, the university registrar, the Student Government Association (SGA) Office, the student grievance officer, and the Dean of Students/Vice Provost for Student Affairs.

Course Registration Policies (p. 54)

- Academic Advising (p. 58)
- Alternative Coursework (p. 59)
- Auditing Courses (p. 63)
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Student Success Policies (p. 67)

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- Graduation and Degree Requirements (p. 80)
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- Academic Grievances (p. 87)
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Course Registration Policies

Information on policies regarding course registration and academic coursework at the University of Louisville can be found on this page or by clicking on the following links to topic-specific pages:

- Academic Advising (p. 58)
- Alternative Coursework (p. 59)
- Auditing Courses (p. 63)
- Course Loads (p. 64)
- Pass/Fail (p. 65)
- Registration (p. 65)
- Repeating Courses (p. 65)
- Undergraduate and Graduate Courses (p. 66)
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**Academic Advising**

Academic Advising at the University of Louisville is an on-going, intentional, educational partnership dedicated to student academic success. More information about academic advising can be found within the University Wide Policies section (p. 54) of this Undergraduate Catalog.

**Flight Plan**

Flight Plan is a university-wide initiative that assists students in staying on course to graduate in four years or in the timeframe of their choice. Students learn about majors and how they connect to careers and then select a Flight Plan that meets their interests and their level of skills. Academic progress toward degree completion is monitored and students not meeting the published milestones for their Flight Plan must meet with an academic advisor to develop a plan to get back on course or select a different Flight Plan.

More information about Flight Plan can be found at louisville.edu/flightplan.

**Athletic Academic Services**

This office provides academic support for all students involved in the University’s intercollegiate athletic programs. The academic performance of all student-athletes is monitored during the semester as well as their progress toward graduation. A liaison is maintained with the faculty through close collaboration with the Committee on Academic Performance (CAP) and Faculty Athletic Representative (FAR) – Elaine.Wise@louisville.edu.

Services offered include academic counseling, tutoring, objective based study hall, career services, computer services, accommodative learning services for student-athletes with learning challenges, and referral to other university offices to ensure that student-athletes are informed about other available resources. The office also advises several Registered Student Organizations which provide opportunities for student-athletes to get involved on campus and in the community. Additional information can be found online at UofLsports.com/school-bio/lou-academic-services.html (http://www.uoflsports.com/school-bio/lou-academic-services.html).

**Auditing Courses**

Audited courses do not earn credit, although the transcript will indicate that the course was taken as an audit. Because audit status is offered only on a space available basis, students may not register for a class in an audit status during early registration, nor may a student change from graded to audit status during that period. Students may register for classes in audit status during regular registration and then only with the written approval of the instructor of the course. Not all instructors allow auditors. Work expectations of auditors can vary across courses and instructors, and the specific work expectations that will warrant the audit designation on the transcript should be confirmed with the instructor facilitating the course. Auditors who do not fulfill the work expectations may be withdrawn from the course with a grade of W noted on the transcript.

Students who have registered in audit status will not receive credit for the course unless their registration has been changed officially from audit to credit by the published deadline for such a change. Students are allowed to change from audit to grade status or from grade status to audit status at any time from the beginning of regular registration through the last day to add a class with approval from the course instructor. Students are advised that such approval is the instructor’s prerogative, subject to completion of course prerequisites, and that audit status may have implications for financial aid eligibility. Any change of status must be submitted on a Drop/Add and Grade Type Change Form and turned in to the Registrar’s Office by the deadline. Students admitted to the unit as Auditors are not eligible to take courses for credit and may not change their class registration from audit to credit.

Students are cautioned that auditing a class cannot substitute for taking the course for credit if that course is part of the credit hour requirement for graduation, including both college-wide and major requirements. Any required course taken as audit must be retaken for credit in order to be counted toward a degree. Students are advised to consult with their academic advisor to determine if registration in audit status is appropriate. Students may enroll for credit in any course which was taken for audit, in a semester subsequent to the semester when the course was
Course Loads

Students may need to prove full-time/half-time status in order to be eligible for dependent insurance and to defer repayment of some loans, among other reasons. Definitions of full-time/half-time may be changed as required by federal government regulations for financial aid recipients. Students will be certified as full-time if registered for 12 or more hours in any semester, including summer. Cooperative internships also qualify for full-time status in some units. For half-time status, students must be registered for a minimum of 6 hours during any semester, including summer.

All baccalaureate degree programs require at least 120 credit hours, but more may be required in some programs. A typical schedule in the fall and spring semesters is 15 semester hours, but again varies by semester and program, ranging from 12 to 18 hours. Some programs also have planned summer loads.

Students in good standing typically may take no more than 18 hours in the fall and spring semesters. Students are also limited to 18 hours total for the summer semester, with limits of 4 hours in the three-week summer session and 7 hours during each five-week summer session. Under special circumstances, students who have completed a minimum of 30 hours at U of L and who have a cumulative grade point average of at least 3.0 may request permission through their advising center to take an overload. Overload approvals vary by unit. Typically, there are no overloads for summer. Permissions are handled by procedures determined by the Dean’s Office in each unit, and some units may accept petitions for course overloads above those listed above.

Students on academic warning or probation and students admitted in conditional status are limited to 13 hours during the fall and spring semesters and to a total of 10 semester hours during the summer sessions.

Pass/Fail

Undergraduate students in good academic standing may enroll in one undergraduate course each semester on a pass/fail basis, provided that the course is not used to meet a general education requirement, a programmatic requirement, a prerequisite requirement for admission to a degree program, or a foreign language requirement for a degree program. If the course is letter-graded, the instructor’s agreement (signature) must be secured by students for pass/fail grading to be applied to the course, and the student’s enrollment unit must approve the request. Courses completed on a pass/fail basis will not be assigned any quality points, but credit will be given if the grade assigned is a P. If the grade assigned is F, it will be calculated as such in the student’s grade point average. No changes from letter grade to pass/fail, or vice versa, may be made after the University’s deadline to withdraw from a course. No letter-grade equivalent for a P grade will be assigned or reported. This policy will not apply to courses taught only on a pass-fail basis, such as some internship and field experience courses.

Registration

Students may register for courses during the priority early registration period before the beginning of the semester. A student’s first opportunity is based on classification and alphabetic rotation. The early registration period is then followed by regular and late registration. The registration calendar for any term is published online by the office of the registrar. Initial registration and any later registration changes are usually completed by students through the registration link of the ULink online portal.

Initial registration must be completed by the date announced by the registrar, typically the Friday of the first week of classes. Students may make adjustments to their course schedule until the end of the first week for regularly scheduled fall and spring courses. For summer courses and courses with atypical duration, the last date to adjust schedules is specified by the registrar in the official registration calendar. This last day to adjust schedules is referred to as the last day to drop/add.

Students may add courses to their schedules until the last day to drop/add. No signature or other authorization is required if the added course is open for enrollment, if students meet all course prerequisites, and if such additional courses do not raise the students’ credit hours for the term above the maximum allowed by the students’ enrollment unit or academic standing. If the addition increases the tuition cost for the semester, the additional payment must be settled with the university bursar by the last day to drop/add.

Students can place their names on the waitlist for a course that is closed. Students are automatically moved from the waitlist to registration in the course as spaces open until the end of the first week of classes. Students may add their names to the waitlist until the third day of classes for regularly scheduled fall and spring courses, and the first day of classes for summer courses.

Students may drop a course from their schedule until the last day of drop/add. Courses that are dropped during the regular registration period are not listed on the transcript. Students should consider how dropping a course will affect their Flight Plan status, their progress toward their degree and their financial aid eligibility. Students who stop attending a class but fail to complete the drop process, regardless of the date when they stopped attending the course, will be given the grade of F for the course.

Students who wish to enroll in concurrent courses at another institution should consult their academic advisor before registration to secure a visiting student letter, and to ensure proper enrollment and recording of courses. Students in good standing who have earned a minimum of twelve hours may be able to cross register at other universities in the Kentuckiana Metroversity consortium. Cross registration is permitted on a space-available basis at the discretion of the member institutions. The combined program of work in all institutions may not exceed the maximum course load permitted for students at the University of Louisville. Failure to follow these guidelines may result in loss of credit or in ineligibility to transfer the credits from the other schools toward the requirements for graduation.

Repeating Courses

Students are allowed to repeat a course only once, with the most recent grade counting for grade point average calculation and towards degree requirements. Students are advised to weigh carefully the trade-off between 1) possibly improving their academic standing by repeating a course and earning a higher grade, and 2) the investment of time and money in repeating courses.
Students may petition to repeat a course more than once through a process determined by each academic unit.

Although all grades are displayed on the official transcript, repeated courses cannot receive double credit in hours required for the degree and count only once toward graduation.

Students may only receive federal and state financial aid funds one time for retaking previously passed coursework. Students should speak with a financial aid advisor about the impact on financial aid before making the decision to repeat a course that was previously passed.

Undergraduate and Graduate Courses

University of Louisville undergraduate students typically take courses at the 100 through 400 level. Courses numbered below the 100 level are not used in calculations of earned hours or the university grade point average. Courses numbered at the 100 and 200 level are primarily for freshmen and sophomores, and such courses generally contain introductory or basic material. Courses numbered at the 300 and 400 level are primarily for juniors and seniors, and such courses generally contain advanced undergraduate material.

Courses at the 500 level may be open to both advanced undergraduate and graduate students. Courses numbered at the 600 level and above are for graduate students only. Undergraduate students requesting to enroll in a 600-level course may do so only with special permission of the instructor in the course and the unit dean, and they must be registered for at least one undergraduate course. Such graduate level courses will satisfy requirements toward the undergraduate degree and therefore cannot be used for subsequent graduate credit.

In rare cases, undergraduate students at the University of Louisville who are within six (6) semester hours of completing the baccalaureate requirements and who are enrolled in a graduate course may obtain graduate credit at the University of Louisville. This can only occur if the course has not been used to satisfy part of the baccalaureate requirements, and if the chair of the department involved and the unit dean approve. Students who have applied and been accepted into an accelerated master’s program may take a maximum of nine hours of graduate level courses as an undergraduate to satisfy master degree requirements. Those nine credit hours of graduate credit are transferred to the students’ University of Louisville graduate record after students complete one semester as a graduate student.

Students must have completed the proper prerequisites to register for any course. It is the student’s responsibility to know the prerequisites for a course by checking the course description section of the online university undergraduate catalog. While some of these courses are open to all students enrolled in the University of Louisville, many are restricted to students in certain programs.

The dean’s office in each unit reserves the right to administratively withdraw students from courses based on academic policies.

The units also reserve the right to cancel without prior notice any courses listed in the Schedule of Classes, and to cancel any course that does not have an adequate enrollment at a reasonable time during the registration period for the semester. The university attempts to provide all courses required for graduation frequently enough to ensure that no student’s degree will be delayed by course unavailability, but the university cannot guarantee that such delay will not occur.

Withdrawals

Students may withdraw from courses after the drop/add period up until the withdrawal deadline. A grade of W (withdrawal) will be posted to students’ transcripts. The hours count as attempted hours but do not count as earned hours, and the grade will have no effect on the students’ grade point averages. Students withdraw by using the registration link of the ULink online portal. No signature or other authorization is required if the change is made by the withdrawal deadline, but students should consult with academic and/or financial aid advisors to understand how withdrawing from a course will affect their Flight Plan status, their progress toward their degree and their financial aid eligibility.

The withdrawal deadline for each semester is specified in the official registration calendar. The deadline typically occurs shortly after mid-term. Students who stop attending class without withdrawing will be given the grade of F for the course.

Students who make a complete withdrawal from all courses for a particular semester should contact their academic advisor to seek alternative solutions and/or to improve the possibility of returning to the university at a later date. A complete withdrawal must be processed in accordance with the procedures established by the academic unit.

In exceptional circumstances, students may petition for a late withdrawal after the withdrawal deadline. Students who intend to continue in other courses during the semester must petition the course instructional unit (the academic unit in which the course is taught). Students who intend to withdraw from all courses for which they are registered (late complete withdrawal) must petition their enrollment unit (the academic unit in which they are enrolled for their degree work). Proper documentation of the exceptional circumstances must accompany the petition for a late complete withdrawal. The enrollment unit shall request and consider all instructors’ recommendations in deciding on the petition for a late complete withdrawal. Students should contact the advising office in the appropriate unit for guidance in the petition process.

Students may request and be considered for a compassionate withdrawal when extraordinary circumstances prevent students from continuing in classes or completing academic requirements. If students are gravely incapacitated, the request may come from the student’s spouse, family or legal surrogate. The Office of the Dean of Students will gather necessary documentation to show that the situation is incapacitating. Such situations cover both physical and mental health issues, serious illness or injury, and extraordinary personal reasons. The Office of the Dean of Students will review and evaluate the compassionate withdrawal request and take follow-up action to refer the case to the appropriate officer (e.g., unit dean) for review and decision. The Office of the Dean of Students will coordinate the process with the unit dean’s designee.

An academic withdrawal does not remove a student’s financial responsibility for his/her educational expenses. Students are responsible for payment of any outstanding charges including, but not limited to tuition, fees, parking, housing and other expenses, after the academic withdrawal is granted. The Office of the Dean of Students will assist with the identification and completion of all necessary business processes.

The effective withdrawal date is the date on which the withdrawal is processed in the student records system. This date is used in calculating any applicable tuition reduction. When students officially withdraw from any course or courses for which hourly rates apply, tuition will be adjusted at the following ratios for regularly scheduled fall and spring classes:
Drop during the first week of semester............................. 0% charge / 100% credit
Withdrawal during second or third week of semester....... 50% charge / 50% credit
Withdrawal during fourth week of semester..................... 75% charge / 25% credit
Withdrawal after fourth week of semester........................ 100% charge/ 0% credit

Summer courses and some fall and spring semester courses vary in length and the percentage of refunds is modified. Refund deadlines for special terms and courses are listed in the online Registration Information. Course fees (as opposed to tuition) are refundable only with 100% credit.

Academic Advising

University Policies: Academic Advising
Each undergraduate unit at the university has full-time academic advisors available to assist students in planning the completion of their degree program and in navigating UofL resources. Some of the units at the University offer faculty advising and mentoring as well.

While academic advisors will make every effort to guide students throughout their education, students are ultimately responsible for developing a familiarity with and adhering to university, unit, and departmental policies and procedures. Students are expected to meet regularly with an advisor who will assist them with staying on their four-, five- or six-year Flight Plan (http://louisville.edu/flightplan) for graduation.

More information about academic advising and resources, including links to the unit advising centers, can be found at the Undergraduate Advising website (http://louisville.edu/advising).

Academic advising assists students with, among other things, the following:
- Choosing a major and developing a four-, five- or six-year Flight Plan (http://louisville.edu/flightplan) for graduation.
- Selecting appropriate courses and making schedule changes.
- Navigating course repeats and withdrawals.
- Addressing academic difficulties in coursework and issues related to academic standing.
- Advising on campus resources.
- Filing leave of absence requests.
- Processing transfer credit evaluations and degree audits.

Students may not register for classes until their advising requirement has been satisfied. The following categories of students are required to meet with an advisor each semester in order to register for courses:
- Freshmen with less than 24 earned credit hours applicable to the degree.
- Transfer students (external and internal) upon initial admission and in their first semester.
- Students who are on academic warning and probation.
- Students who have a break in enrollment of two or more consecutive years.
- Students who are undecided.
- Students who are seeking admission into another enrollment unit.
- Students who have missed program milestones.
- Students who are required to be advised by individual academic units.

Visiting and post-baccalaureate students are not required to meet with an advisor in order to register for courses in the subsequent semester.

Unit-Specific Policies: Academic Advising
In addition to the university-wide policies regarding Academic Advising, students may be subject to the unit-specific requirements listed below.

More information about academic advising and resources, including links to the unit advising centers, can be found at the Undergraduate Advising website (http://louisville.edu/advising).

College of Arts & Sciences
In addition to the university requirements, academic advising is required for the following students enrolled in the College of Arts & Sciences:
- All students with fewer than 30 earned hours,
- Returning students who have sat out for a period of one semester or longer, and
- Students with 45 or more earned hours who have not formally applied for and been accepted into a major program.

Visiting students and post-baccalaureate students are not subject to the advising requirement. Students for whom advising is required will not be permitted to register for courses until completion of the advising requirement has been entered into the enrollment system.

Students who have been accepted to a major are highly encouraged to meet with faculty in their field of study. The College of Arts & Sciences also provides pre-professional advising for students interested in careers in law and in health-related fields.

College of Business
All business students are recommended to schedule an appointment with their advisor at the Reinhardt Academic Center periodically; Equine majors must contact the advisor within that discipline.

College of Education and Human Development
All students entering degree and/or teacher certification programs must schedule an appointment to meet with an academic counselor in Education Advising and Student Services to have an official program
sheet prepared. This includes both internal and external transfer students who have been admitted to the College of Education and Human Development as well as new freshmen.

School of Music
Advising is required for all music students until they have completed all prerequisites for Upper Division courses. (See the Upper Division statement in the School of Music Unit Section and in the music degrees outlined in the undergraduate catalog.) Students will be blocked from registration for classes until the advising requirement has been satisfied.

School of Nursing
Freshmen and transfer students with less than 28 hours are required to be advised prior to registration. All new students are required to be advised regardless of credit hours.

School of Public Health and Information Sciences
A student is assigned an academic advisor on matriculation and is required to meet with that advisor every semester. The student is responsible for scheduling these required advisory meetings.

Speed School of Engineering
All BS and MEng students are required to be advised by their academic counselor each semester. Students will be unable to register for classes until cleared by an academic counselor.

Alternative Coursework
In addition to the traditional course offerings, the University of Louisville may award academic credit through alternative means. Such opportunities do not require the customary classroom attendance and participation and include extramural examinations, conference work, independent studies, internships, cooperative education, field experiences, and clinical rotations. Each of these experiences requires the approval of the enrollment unit and not all are available in every unit, so students should consult with the advising office for availability and requirements.

The most common alternatives for earning credit outside of traditional coursework are independent study and internships:

Independent Studies
Many units offer independent study courses, which provide the opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. Students must present a written plan to their department that includes the purpose, rationale, activities planned, and expected learning outcomes, and the plan must be approved by the instructor, department chair, and unit dean and submitted to the registrar. A title for this individualized study course will be assigned by the supervising faculty member and will appear on the student’s academic record.

Before applying for an independent study, students should have at least 30 semester hours and a 3.0 GPA.

Internships, Cooperative Education, Field Experiences, Clinical Rotations
These courses give students the opportunity to earn academic credit for workplace experiences that support the educational goals of the student’s academic discipline. Students should consult with their academic advisor to determine the requirements within their units. Approved opportunities range from full- to part-time, temporary to permanent, paid to non-paid.

In some programs, internships, cooperative education, field experiences, and clinical rotations are required to satisfy degree requirements.

Unit-Specific Policies
In addition to the university-wide policies regarding Alternative Coursework, students may be subject to the unit-specific requirements listed below.

College of Arts and Sciences
Conference Work
Conference work refers to completion of course requirements through satisfactory performance on all regularly scheduled writing assignments and examinations, including the final examination. Students enrolled for conference work are excused from regular class attendance. However, the following requirements apply:

- The instructor excuses the students from all participation except for the writing assignments and examinations;
- The waiver must be given at the beginning of the semester;
- The students must be enrolled for credit in the courses; and
- The students must pay the regular fees for credit courses.

Students who satisfactorily complete the requirements for conference work receive the same semester hours as though they attended the class regularly, and their grade will be determined by performance on the writing assignments and examinations.

Credit by Examination
Extra-curricular examinations allow students to fulfill course requirements by meeting criteria established and evaluated by a special examining committee. These examinations are customarily taken
The requirements for such an examination are:

- Students must first obtain the approval of the chair of the department in which they propose to earn credit through examination, specifying why credit by examination would be justified in their programs.
- Students must obtain an application for credit by examination from the College Advising Center and return the completed form to the Center.
- Students must pay one half the regular fees for the course.
- A faculty committee must agree to serve as examiners. The committee will consist of a regular instructor for the course, who chairs the committee, and two additional examiners, one of whom must be from outside the Division.
- Students must take both a written and an oral examination.
- Students must submit to the chair of the committee any evidence of achievement, in addition to the written and the oral examinations, which the chair requires.
- Students must be enrolled concurrently in the College for a minimum of 6 semester hours of regular course work.

Credits earned by conference work or by examination are counted in the student's regular load, which must not exceed 17 semester hours per semester. (See Course Load).

Cooperative Internships
The College will award academic credit for eligible work experiences that qualify under the College's Internship Policy. To qualify for enrollment in a cooperative internship course for credit, each student is required to present:

- Either 45 credit hours, including 9 in the unit in which credit is sought, or 60 credit hours, including 6 in the unit in which credit is sought;
- A minimum grade point average of 2.5 for all coursework taken; and
- A completed Application for Enrollment in Cooperative Internship Form.

Transfer students must have completed one full semester of work (i.e., 12 hours) at the University of Louisville.

A maximum of twelve credits of Internship (including hours earned in GEN 301) may apply toward the 121 hours required for the degree.

For information about internships, contact the chair of the department of the major.

Independent Study
Students may, with permission of the Departmental or Divisional Chair and the Dean, register for Independent Study in a particular department. The student must have an overall grade point average of 3.0, a grade point average of 3.5 in the department, and at least 18 semester hours’ credit in that department unless otherwise waived by the department. Independent Study consists of a minor research project conducted under the direction of a faculty member. Students obtain forms for Independent Study from their department. The completed forms with required signatures must be turned in at registration. Credits earned through Independent Study are counted in the regular load, which must not exceed 18 credit hours per semester.

College of Business
Awarding of Credit for Non-Traditional Work
The College of Business does not award credit for work experience, noncredit courses or internships, independent studies, or co-ops taken at another academic institution.

Correspondence Courses
The College of Business does not offer courses by correspondence, nor does it grant credit for business courses taken by correspondence. Students who wish to take correspondence courses to fulfill the Arts and Sciences requirements for their program should contact the College of Business, Reinhardt Academic Center.

Cooperative Education
The COB faculty and employers structure individually appropriate practical experiences that build professional competence, apply academic principles, and help evaluate career options.

COB majors may earn either three (3) or six (6) hours of academic credit through the Co-op program, as specified in each major's Degree Program section of this catalog. One hour of academic credit is given for each 75 hours of approved work. Students can be considered full-time during a semester in which they are registered for three (3) Co-op credit hours. Students register for credit during the semester in which the majority of the work takes place. Start dates for COB Co-op are flexible. Co-op evaluations are graded on a Pass/Fail basis. Deadlines for each semester are posted in the COB Ulmer Career Management Center.

Under certain circumstances a student may be eligible to take an approved internship or Co-op for no academic credit. Such an internship or Co-op will appear on the transcript without any academic credit. Contact the Ulmer Career Center for details.

All majors are encouraged to plan in advance for Co-op, which is typically taken during the junior and/or senior years. Computer Information Systems majors register for Co-op as a graduation requirement and usually work full-time for six (6) months prior to graduation.

International students must validate work authorization eligibility through the International Center prior to working with the COB Ulmer Career Management Center.

Approved COB Co-op may be paid or non-paid. Students may work full-time, alternating semesters of Co-op with semesters of campus academics. Or, students may work part-time, in order to parallel workplace and classroom experiences. Employment arrangements are between students and employers while the COB provides structure, guidance, and evaluation for educational components. Program requirements include the following:

- Be enrolled in good standing in the College of Business
- Maintain a 2.0 cumulative university GPA
- Have completed prerequisite courses established by each major area of study.
- Work in positions that are approved for credit in the educational discipline of the student's major. These positions must be current level-appropriate experiences that can be characterized as new learning and/or new responsibilities. Credit is not given for past
employment experience or continuing employment that does not offer new employment challenges.

Apply for COB Co-op on the Ulmer Career Center website: business.louisville.edu/careers.

Business minors (other than Management) do not have the option for Co-op credit.

College of Education & Human Development

Course by Conference
Under certain circumstances, a student may complete a course on an individual basis with an instructor. This is called a course by conference. Course by conference forms are available in the Education Advising and Student Services office. Signatures of the instructor, department chairperson, and dean are required on the form.

Independent Study
Credit may be earned by independent study with the permission of the dean, department chairperson, and instructor. Independent study forms are available in the Education Advising and Student Services office.

Statement on Student Teaching/Field Experience
In all phases of the Developmental Teacher Preparation Model, candidates participating in field and clinical experiences must abide by all policies, rules, and regulations of the University and the assigned school. Failure to abide by standards of conduct and performance established by the faculty may result in removal from the program. Electronic documentation of 200 hours of diverse and approved field experiences is required prior to student teaching.

Student teaching requires a minimum 15-week clinical experience in school setting(s) related to the teaching certificate a teacher candidate is seeking. Teacher candidates work with a cooperating teacher and University supervisor participating in the work of teaching. Evaluation is based on Kentucky Teacher Performance Standards and Professional Code of Ethics.

Speed School of Engineering

Independent Study Courses
Engineering students should have at least 30-semester hours and a 2.5 GPA before applying for an independent study. Students must obtain approval from the instructor, department chair, and Associate Dean for Academic Affairs.

Cooperative Education
The principal purpose of the J.B. Speed School of Engineering is to give the student a thorough, well-balanced training in engineering and applied science as preparation for entry into the profession of engineering. The Engineering Office of Co-op and Career Development assists each student in obtaining a suitable cooperative work assignment in their chosen industry or research field, at locations throughout the US and occasionally abroad. During each co-op assignment, students work full-time and receive a salary from their employer.

Engineering Cooperative Education
In order to qualify for the Bachelor of Science degree, students must successfully complete three engineering co-ops.

Eligibility for Co-op
Co-op eligibility is dependent upon the student’s admission to an academic department, being in good academic standing within Speed School, and upon completion of pre- and co-requisites for the Co-op Seminar (288) and co-op rotations (289, 389, 489). Students must be enrolled in the Co-op Seminar (288) in a semester preceding their first cooperative work assignment. In addition, transfer students must have completed at least one semester of full-time coursework in Speed School including the Co-op Seminar (288) before their first co-op.

A student may lose their eligibility for co-op for any of the following reasons:

• Academic Warning or Probation,
• Disciplinary Probation,
• Employer Termination,
• Unauthorized Change of Co-op Employer,
• Actions that reflect negatively on the J.B. Speed School of Engineering,
• Unprofessional conduct (not attending scheduled interviews, not responding to Co-op office enquiries, etc.), or
• Unsatisfactory Co-op Employer Performance Review.

If a student loses their Co-op eligibility, they must submit a petition to re-enter Co-op.

Student Responsibilities
Students will alternate Co-ops with semesters of full-time class work.

Students are required to register for the Co-op prior to the beginning of each work term.

Students are expected to work the dates of Co-op designated by the Engineering Office of Co-op and Career Development Office.

Unless specifically approved by the Co-op coordinator, all Co-op work terms will be conducted with the same employer and in alternating semesters.

Students are employees of the company or organization while they are on Co-op and are subject to employer rules and regulations. Students are expected to maintain the highest performance and behavioral standards while on Co-op.

If a student is terminated from cooperative employment or otherwise disciplined for any reason, it must be immediately reported by the student to the Co-op coordinator. A student who is terminated for any reason other than the employer’s business conditions will receive an F grade in Co-op and, in addition, may be subject to academic sanctions as well as disciplinary action in accordance with the Code of Student Conduct.

The university is not liable for any accident or injury involving a Co-op student. However, it is the responsibility of the student to see that any serious accident or injury is reported, at the earliest opportunity, to the Co-op coordinator. A student who is terminated for any reason, it must be immediately reported by the student to the Co-op coordinator. Students are required to sign and abide by the policies and procedures set forth in the Cooperative Education Student Agreement provided in the Co-op seminar.

Salary
In general, students are classified as temporary full-time employees and are paid on an hourly basis while on Co-op. Pay rates vary according to employer and location.

Length of Employment
In order to be eligible to receive the Bachelor of Science degree, all candidates must have completed three cooperative semesters.
Course Enrollment During Co-op
In general, academic coursework is not allowed during the Co-op work period. In some instances, with approval, a student may enroll for academic coursework not exceeding four semester hours during any Co-op period. Approval will be given only for academic coursework that is taken outside normal working hours (8:00 – 5:00) and which does not interfere with the co-op work assignment. Permission to take a course must be obtained prior to the beginning of the co-op period. Request forms are available from the Engineering Office of Student Success.

Evaluation and Academic Credit
Co-op students are graded on a pass/fail basis and earn one semester hour of credit for each completed co-op, for a total of three semester hours. At the conclusion of a co-op semester, each student is evaluated by the appropriate employer representative. The report will be reviewed and approved by the co-op coordinator and faculty in the student’s major department.

Advanced Standing Credit
Advanced Standing credit for co-op may be awarded upon approval of the department chair, the Director of Co-op and Career Development and the Associate Dean for Academic Affairs. Students who performed full-time work of a technical nature before entering Speed School and students who have had military experience are eligible. A letter is required from the employer verifying the dates and the nature of the employment. In the case of military experience, veterans may submit a copy of their separation form in lieu of the employer’s letter. Students who participate in ROTC or military summer camp may receive credit for one co-op (1 hour).

Forms for advanced standing credit are available from the Engineering Office of Co-op and Career Development. Part-time work or work performed subsequent to entering Speed School will not qualify for advanced standing credit. If the work, however, was comparable to a co-op assignment and was performed during a semester in which the student was enrolled for no more than four semester hours, then the student may be eligible, upon approval, for back registration. The student must pay tuition for the one credit hour of coursework, as well as the co-op course fee, and will be expected to fulfill normal course requirements for co-op, including submission of a co-op report and employer evaluation.

Employment Opportunities
Securing a co-op position is affected by general economic conditions and particular employer specifications. Therefore, the University cannot guarantee employment. However, every effort will be made to assist students in finding cooperative assignments appropriate to their specialization and personal preference. Students who obtain their own co-op employment must have the approval of the cooperative education coordinator and are subject to the policies and procedures stated herein and the Cooperative Education Student Agreement.

Waiver Policy
When a student experiences extreme difficulty in obtaining a suitable co-op position, that student may seek an administrative waiver from the department chair and the Director of Career Development. Waiver recipients are required to complete a minimum of three semester hours of additional courses for each cooperative period waived. The three semester hours must be in addition to courses required for the baccalaureate degree and must be approved by the department chair.

International Students Exemption
A student who holds a student visa is exempt from the mandatory cooperative education requirement. Student visa holders are required to complete a minimum of three semester hours of additional courses for each co-op. The three semester hours must be in addition to courses required for the baccalaureate degree and must be approved by the department chair.

Graduate Career Employment
Graduating students and alumni should register with the Engineering Co-op and Career Development Office for job search assistance. On-campus interviews, individual counseling, and group information sessions are conducted throughout the year.

Extramural Examinations
Advanced Placement Examinations of the College Board
In accordance with Kentucky Senate Bill 74 (lrc.state.ky.us/recarch/02rs/sb74.htm), the University of Louisville awards credit for scores of 3 on all Advanced Placement Examinations of the College Board. A higher score may be required to receive credit for specific courses within certain disciplines. Elective credit will be awarded for Advanced Placement Examinations not listed or for scores of 3 when a higher score is required for specific course credit. Scores should be submitted to the Office of Admissions as soon as they are available.

College-Level Examination Program of the College Board
UofL awards credit on the basis of the College Level Examination Program (CLEP) administered by the College Board. CLEP examinations may be taken at any national test center, including the University of Louisville Testing Service. Prior arrangements with the testing center must be made, and there is a fee for the general examination and for each subject examination. A CLEP Bulletin of Information for candidates may be obtained from most testing centers, or by writing the following address:

CLEP
Box 1821
Princeton, New Jersey 08540.

Scores obtained should be sent to the Office of Admissions.

International Baccalaureate
The university awards academic credit to entering freshmen who have completed the International Baccalaureate (IB) Program. Credit will be awarded through AP credit and the College-Level Examination Program of the College Board. Areas of study, the amount of credit allowed, and minimum scores are determined by the Office of Admissions. Credit earned through CLEP does not count as credit earned in residence at the University of Louisville. For more information go to louisville.edu/admissions/apply/test-credit/ap-credit
awarded for most IB Higher or Standard Level exams completed with a 5 or higher.

Scores and course equivalencies (http://louisville.edu/admissions/apply/test-credit/ib-credit) are available from the Office of Admissions.

For more information go to louisville.edu/admissions/apply/test-credit/ib-credit

**Foreign Language Advanced Standing**

Students who wish to continue the study of a foreign language begun in high school must take placement examinations in order to be placed at the appropriate level. To receive university credit for language study completed at the high school level, the placement examination is required before attempting university language study.

The placement exam is administered online and can be completed at modernlanguages.louisville.edu/spanishfrenchexam.php.

The placement tests may not be used to earn credit if the student already has received college- or university-level credit in that language elsewhere or has enrolled in a course in that language at this university.

When a student places into a course numbered higher than 121, credit toward graduation will be awarded for those elementary or intermediate courses by-passed only if the student completes successfully the language class into which s/he is placed.

A student placing in the 300 level will receive 12 hours of P/Pass credit for courses numbered 121, 122, 123, or 221 (depending on the language) upon successful completion of a 300-level class in the language. Any credit earned by placement testing will be posted on the student’s record only after completion of a regular semester of full-time study (or 12 semester hours) at the University of Louisville. Students should not enroll for credit in a course they have successfully bypassed through examination.

A student who has earned college credit for work done in high school may choose whether to use that credit or the credit earned through the placement examination program described above. These regulations also apply to Metroversity students.

For foreign students whose previous academic work has been in a language other than English, the foreign language requirement for graduation will be waived automatically. No credit will be granted for 100- or 200-level language courses to any student for whom that course is his/her native language. Students may obtain credit for courses in linguistics, culture or literature numbered 300 or above in their native language by exam or by taking the courses.

For information about placement examinations in American Sign Language, contact:

**Coordinator of the Interpreter Training Program**

300 Robbins Hall
Louisville, KY 40292
(502) 852-4607

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1 Eighteen hours of credit by placement are available in Spanish for students who test into SPAN courses 321, 322, or 355.

### Auditing Courses

Audited courses do not earn credit, although the transcript will indicate that the course was taken as an audit. Because audit status is offered only on a space-available basis, students may not register for a class in an audit status during early registration, nor may a student change from graded to audit status during that period.

Students may register for classes in audit status during regular registration and then only with the written approval of the instructor of the course. Not all instructors allow auditors. Work expectations of auditors can vary across courses and instructors, and the specific work expectations that will warrant the audit designation on the transcript should be confirmed with the instructor facilitating the course. Auditors who do not fulfill the work expectations may be withdrawn from the course with a grade of W noted on the transcript.

Students who have registered in audit status will not receive credit for the course unless their registration has been changed officially from audit to credit by the published deadline for such a change. Students are allowed to change from audit to grade status or from grade status to audit status at any time from the beginning of regular registration through the last day to add a class with approval from the course instructor. Students are advised that such approval is the instructor’s prerogative, subject to completion of course prerequisites, and that audit status may have implications for financial aid eligibility.

Any change of status must be submitted on a Drop/Add and Grade Type Change Form and turned in to the Registrar’s Office by the deadline. Students admitted to the unit as Auditors are not eligible to take courses for credit and may not change their class registration from audit to credit.

Students are cautioned that auditing a class cannot substitute for taking the course for credit if that course is part of the credit hour requirement for graduation, including both college-wide and major requirements. Any required course taken as audit must be retaken for credit in order to be counted toward a degree. Students are advised to consult with their academic advisor to determine if registration in audit status is appropriate. Students may enroll for credit in any course which was taken for audit, in a semester subsequent to the semester when the course was audited, provided those students have been admitted to the unit on a basis that confers eligibility to take courses for credit. If students take a course for both audit and credit, the transcript will show both entries.
Course Load

University Policies: Course Load
Students may need to prove full-time/half-time status in order to be eligible for dependent insurance and to defer repayment of some loans, among other reasons. Definitions of full-time/half-time may be changed as required by federal government regulations for financial aid recipients.

Students will be certified as full-time if registered for 12 or more hours in any semester, including summer. Cooperative internships also qualify for full-time status in some units. For half-time status, students must be registered for a minimum of 6 hours during any semester, including summer.

All baccalaureate degree programs at UofL require at least 120 credit hours, but more may be required in some programs. A typical schedule in the fall and spring semesters is 15 semester hours, but, again, varies by semester and program, ranging from 12 to 18 hours. Some programs also have planned summer loads.

Students in good standing typically may take no more than 18 hours in the fall and spring semesters. For the summer semester, the total number of hours a student may take varies from unit to unit, with limits of 4 hours in the three-week summer session and 7 hours during each five-week summer session. Under special circumstances, students who have completed a minimum of 30 hours at UofL and who have a cumulative grade point average of at least 3.0 may request permission through their advising center to take an overload. Overload approvals vary by unit. Typically, there are no overloads for summer. Permissions are handled by procedures determined by the Dean's office in each unit, and some units may accept petitions for course overloads above those listed above.

Students on academic warning or probation and students admitted in conditional status are limited to 13 hours during the fall and spring semesters and to a total of 12 semester hours during the summer session.

Unit-Specific Policies
In addition to the university-wide policies regarding Course Load, students may be subject to the unit-specific requirements listed below.

College of Arts and Sciences
Students with less than 30 hours at UofL and a cumulative grade point average of at least 3.5 may petition to take more than 18 hours. Students with a 3.0 grade point average at the University of Louisville may petition to take up to nine hours in a five-week session, but are still limited to a maximum of 18 hours in the summer semester.

College of Business
Full-time status in the COB can also be met by being registered for 3 credit hours of approved COB Co-op in a given semester. Co-op credit hours count toward the total hours taken. All COB students considering COB Co-op should evaluate course loads in terms of individual needs and plan accordingly with the assistance of an academic advisor. Other academic course load during a Co-op semester should be severely limited. Students should check with their financial aid lending institution when considering the impact of COB Co-op on financial planning for semesters involving co-op work.

Students on academic warning and probation are also restricted to no more than one course per summer term.

Note: The College of Business reserves the right to administratively withdraw students from courses based on academic policies.

College of Education & Human Development
The maximum load for the summer semester is 15 semester hours.

Kent School of Social Work
The maximum load in summer sessions is 3 semester hours for the first term and 6 semester hours in the second and third terms. Students should note that the Kent summer term, if taking social work electives, extends across all three summer terms and should work with their advisor to determine their summer load.

Students on academic warning and probation and students admitted on limited load are limited to 13 hours during the fall and spring semesters and to a total of 12 semester hours during the summer session.

School of Music
Overload students in the School of Music may not exceed 20 credit hours per semester. A petition will be required for each semester of overload request.

School of Music students on probation are limited to a maximum of 14 credit hours per semester and students admitted in conditional status to a maximum of 14 credit hours. No overloads will be approved while a student remains in such status. Summer session enrollments will be limited to a maximum of 4 credit hours for three-week terms and 7 credit hours for five-week terms.

Speed School of Engineering
Students may take a maximum of 18 credit hours each fall and spring semester and 13 credit hours in the summer term. In special circumstances during fall and spring semesters, students may register for 19 credit hours with permission from the Associate Dean for Academic and Student Affairs.

Students on either academic warning or academic probation status are limited to no more than 13 credit hours during fall and spring semesters and 7 credit hours during the summer term.
Pass/Fail

Undergraduate students in good academic standing may enroll in one undergraduate course each semester on a pass/fail basis, provided that the course is not used to meet a general education requirement, a programmatic requirement, a prerequisite requirement for admission to a degree program, or a foreign language requirement for a degree program. If the course is letter-graded, the instructor’s agreement (signature) must be secured by students for pass/fail grading to be applied to the course, and the student’s enrollment unit must approve the request.

Courses completed on a pass/fail basis will not be assigned any quality points, but credit will be given if the grade assigned is a P. If the grade assigned is F it will be calculated as such in the student’s grade point average.

No changes from letter grade to pass/fail, or vice versa, may be made after the university deadline to withdraw from a course.

No letter-grade equivalent for a P grade will be assigned or reported. This policy will not apply to courses taught only on a pass-fail basis, such as some internship and field experience courses.

Registration

Students may register for courses during the priority early registration period before the beginning of the semester. A student’s first opportunity is based on classification and alphabetic rotation. The early registration period is then followed by regular and late registration. The registration calendar for any term is published online by the office of the registrar.

Initial registration and any later registration changes are usually completed by students through the registration link of the ULink online portal (https://ulink.louisville.edu).

Initial registration must be completed by the date announced by the registrar, typically the Friday of the first week of classes. Students may make adjustments to their course schedule until the end of the first week for regularly scheduled fall and spring courses. For summer courses and courses with atypical duration, the last date to adjust schedules is specified by the registrar in the official registration calendar. This last day to adjust schedules is referred to as the last day to drop/add.

Students may add courses to their schedules until the last day to drop/add. No signature or other authorization is required if the added course is open for enrollment, if students meet all course prerequisites, and if such additional courses do not raise the students’ credit/hours for the term above the maximum allowed by the students’ enrollment unit or academic standing. If the addition increases the tuition cost for the semester, the additional payment must be settled with the university bursar by the last day to drop/add.

Students can place their names on the waitlist for a course that is closed. Students are automatically moved from the waitlist to registration in the course as spaces open until the end of the first week of classes.

Students may add their names to the waitlist until the third day of classes for regularly scheduled fall and spring courses, and the first day of classes for summer courses.

Students may drop a course from their schedule until the last day of drop/add. Courses that are dropped during the regular registration period are not listed on the transcript. Students should consider how dropping a course will affect their progress toward their degree and their financial aid eligibility. Students who stop attending a class but fail to complete the drop process, regardless of the date when they stopped attending the course, will be given the grade of F for the course.

Students who wish to enroll in concurrent courses at another institution should consult their academic advisor before registration to secure a visiting student letter, and to ensure proper enrollment and recording of courses. Students in good standing who have earned a minimum of twelve hours may be able to cross-register at other universities in the Kentuckiana Metroversity consortium. Cross registration is permitted on a space-available basis at the discretion of the member institutions. The combined program of work in all institutions may not exceed the maximum course load permitted for students at the University of Louisville. Failure to follow these guidelines may result in loss of credit or in ineligibility to transfer the credits from the other schools toward the requirements for graduation.

Repeating Courses

Students are allowed to repeat a course only once, with the most recent grade counting for grade point average calculation and towards degree requirements. Students are advised to weigh carefully the tradeoff between 1) possibly improving their academic standing by repeating a
course and earning a higher grade, and 2) the investment of time and money in repeating courses.

Students may petition to repeat a course more than once through a process determined by each academic unit.

Although all grades are displayed on the official transcript, repeated courses cannot receive double credit in hours required for the degree and count only once toward graduation.

Students may only receive federal and state financial aid funds one time for retaking previously passed coursework. Students should speak with a financial aid advisor about the impact on financial aid before making the decision to repeat a course that was previously passed.

Undergraduate and Graduate Courses

Course Numbering
University of Louisville undergraduate students typically take courses at the 100 through 400 level. Courses numbered below the 100 level are not used in calculations of earned hours or the university grade point average. Courses numbered at the 100 and 200 level are primarily for freshmen and sophomores, and such courses generally contain introductory or basic material. Courses numbered at the 300 and 400 level are primarily for juniors and seniors, and such courses generally contain advanced undergraduate material.

Courses at the 500 level may be open to both advanced undergraduate and graduate students. Courses numbered at the 600 level and above are for graduate students only. Undergraduate students requesting to enroll in a 600 level course may do so only with special permission of the instructor in the course and the unit dean, and they must be registered for at least one undergraduate course. Such graduate level courses will satisfy requirements toward the undergraduate degree and therefore cannot be used for subsequent graduate credit.

Graduate Credit
In rare cases, undergraduate students at the University of Louisville who are within six (6) semester hours of completing the baccalaureate requirements and who are enrolled in a graduate course may obtain graduate credit at the University of Louisville. This can only occur if the course has not been used to satisfy part of the baccalaureate requirements, and if the chair of the department involved and the unit dean approve. Students who have applied and been accepted into an accelerated master’s program may take a maximum of nine hours of graduate level courses as an undergraduate to satisfy master degree requirements. Those nine credit hours of graduate credit are transferred to the students’ University of Louisville graduate record after students complete one semester as a graduate student.

Prerequisites
Students must have completed the proper prerequisites to register for any course. It is the student’s responsibility to know the prerequisites for a course by checking the course description section of the online university undergraduate catalog. While some of these courses are open to all students enrolled in the University of Louisville, many are restricted to students in certain programs.

Administrative Withdrawal and Course Cancellations
The dean’s office in each unit reserves the right to administratively withdraw students from courses based on academic policies.

The units also reserve the right to cancel without prior notice any courses listed in the Schedule of Classes, and to cancel any course that does not have an adequate enrollment at a reasonable time during the registration period for the semester. The university attempts to provide all courses required for graduation frequently enough to ensure that no student’s degree will be delayed by course unavailability, but the university cannot guarantee that such delay will not occur.

Withdrawals

Students may withdraw from courses after the drop/add period up until the withdrawal deadline. A grade of W (withdrawal) will be posted to students’ transcripts. The hours count as attempted hours but do not count as earned hours, and the grade will have no effect on the students’ grade point averages. Students withdraw by using the registration link of the ULink online portal. No signature or other authorization is required if the change is made by the withdrawal deadline, but students should consult with academic and/or financial aid advisors to understand how withdrawing from a course will affect their academic plan status, their progress toward their degree, and their financial aid eligibility.

The withdrawal deadline for each semester is specified in the official registration calendar. The deadline typically occurs shortly after mid-term. Students who stop attending class without withdrawing will be given the grade of F for the course.

Students who make a complete withdrawal from all courses for a particular semester should contact their academic advisor to seek alternative solutions and/or to improve the possibility of returning to the university at a later date. A complete withdrawal must be processed in accordance with the procedures established by the academic unit.

In exceptional circumstances, students may petition for a late withdrawal after the withdrawal deadline. Students who intend to continue in other
courses during the semester must petition the course *instructional unit* (the academic unit in which the course is taught). Students who intend to withdraw from all courses for which they are registered (*late complete withdrawal*) must petition their *enrollment unit* (the academic unit in which they are enrolled for their degree work). Proper documentation of the exceptional circumstances must accompany the petition for a late complete withdrawal. The enrollment unit shall request and consider all instructors’ recommendations in deciding on the petition for a late complete withdrawal. Students should contact the advising office in the appropriate unit for guidance in the petition process.

**Compassionate Withdrawal**

Students may request and be considered for a *compassionate withdrawal* when extraordinary circumstances prevent students from continuing in classes or completing academic requirements. If students are gravely incapacitated, the request may come from the student’s spouse, family or legal surrogate. The office of the dean of students will gather necessary documentation to show that the situation is incapacitating. Such situations cover both physical and mental health issues, serious illness or injury, and extraordinary personal reasons. The office of the dean of students will review and evaluate the compassionate withdrawal request and take follow-up action to refer the case to the appropriate officer (e.g., unit dean) for review and decision.

The Office of the Dean of Students will coordinate the process with the unit dean's designee. An academic withdrawal does not remove a student’s financial responsibility for his/her educational expenses. Students are responsible for payment of any outstanding charges including, but not limited to tuition, fees, parking, housing and other expenses, after the academic withdrawal is granted. The Office of the Dean of Students will assist with the identification and completion of all necessary business processes.

**Withdrawal Effective Date**

The effective withdrawal date is the date on which the withdrawal is processed in the student records system. This date is used in calculating any applicable tuition reduction. When students officially withdraw from any course or courses for which hourly rates apply, tuition will be adjusted at the following ratios for regularly scheduled fall and spring classes:

- Drop during the first week of semester.......................... 0% charge/100% credit
- Withdrawal during second or third week of semester........ 50% charge/50% credit
- Withdrawal during fourth week of semester...................... 75% charge/25% credit
- Withdrawal after fourth week of semester....................... 100% charge/0% credit

Summer courses and some fall and spring semester courses vary in length and the percentage of refunds is modified. Refund deadlines for special terms and courses are listed in the online Registration Information. Course fees (as opposed to tuition) are refundable only with 100% credit.

**Student Success Policies**

Information on policies related to student success at the University of Louisville can be found on this page or by clicking on the following links to topic-specific pages:

- Academic Forgiveness (p. 70)
- Academic Fresh Start (p. 70)
- Academic Standing (p. 71)
- Class Attendance (p. 74)
- Dean’s List and Scholars (p. 74)
- Final Examinations (p. 74)
- Grading (p. 75)
- Incompletes (p. 75)

*These policies are effective August 20, 2018 (Fall 2018 semester).* Students enrolled in a term before this effective date should consult with an advisor in their enrollment unit (http://louisville.edu/advising/centers) if they feel that they are disadvantaged by any change from 2017-18 policies.

Previous catalogs are available via the archive page of this catalog (p. 791). Reference copies of the university catalog are maintained by University Libraries, the university registrar, the Student Government Association (SGA) Office, the student grievance officer, and the Dean of Students/Vice Provost for Student Affairs.

**Academic Forgiveness**

Academic Forgiveness allows currently enrolled students or students who are eligible to re-enroll without seeking readmission to request the adjustment of their records for one or more continuous entire semesters of previous college work. If the appropriate committee within the students’ enrollment unit or the unit in which they seek to re-enroll finds there are extenuating circumstances that warrant such action, the committee may rule the students eligible for academic forgiveness. The committee will approve petitions only if future academic success seems plausible, with the expectation that such forgiveness should typically have a positive effect on persistence toward eventual graduation.

Forgiveness will only be applied to the record after the successful completion of at least 12 hours after the last term for which forgiveness is to be requested. The 12 hours should be in degree applicable courses with the necessary semester grade point average designated by their enrollment unit. After these 12 hours have been attempted, students may petition the appropriate committee for academic forgiveness, designating the semester or consecutive sequence of semesters to which the forgiveness process is to apply. If approved, all course grades and
credit hours for the forgiven semesters will be voided. Students may not
be granted academic forgiveness more than once.

The voided grades and credit hours will not be considered for degree
requirements or quality-point computations, but will remain on the
students’ transcript. Academic actions, such as probation or dismissal,
recorded at the end of the voided terms, will also remain. While forgiven
course grades are removed from the calculation, the course work
does remain a part of the students’ permanent record and the forgiven
work may be considered for financial aid, NCAA purposes, and may be
evaluated if applying for honors or graduate study.

Academic forgiveness is an internal policy. The University of Louisville
cannot guarantee how the work will be viewed by another university
should students choose to transfer. Students considering this option are
strongly encouraged to consult with their academic advisor for guidance.

Academic Fresh Start
Students who are re-admitted to the university after an absence of two
or more years may request a Fresh Start. Students must take at least
30 hours of course work at the University after re-admission and before
graduation for Fresh Start to be applicable. Students are eligible for only
one Fresh Start. Students who have earned a baccalaureate degree from
the University are not eligible for Fresh Start.

If the Fresh Start is approved by the university, students resume an
academic program with no cumulative grade point average from the prior
enrollment. All courses taken remain on the permanent record. Courses
with passing grades are counted for credit and may be used to satisfy
program requirements.

Students may be required to retake courses from academic terms
covered by Fresh Start if the content-currency or major-GPA rules of a
degree program, department or unit so dictate. Students will be notified
at the time of readmission of any additional requirements to be fulfilled in
remedying these conditions.

Although Fresh Start affects cumulative grade point average, it has
no impact on earned and attempted hours. All courses taken at the
university will still be used for financial aid. Financial aid recipients will
still have to adhere to the Satisfactory Academic Progress (SAP) policy
administered by the Student Financial Aid Office. Students who are
granted a Fresh Start are not automatically cleared of any SAP issues.
If interested in submitting a SAP appeal, students should contact the
Student Financial Aid Office.

Courses taken under the repeat-to-replace option during the period
covered by a Fresh Start will not be counted against the maximum
repeats allowed under university policy. Financial aid for repeat courses
is calculated according to federal regulations.

For the purposes of scholastic action and advising, students are initially
assigned to the same academic standing as when they last attended the
university. Thereafter, students are subject to the conditions of probation,
suspension and dismissal that govern all students. GPA calculations
for graduation honors follow the rules established by the students’
enrollment unit.

Academic Standing
Decisions involving academic warning, probation, suspension, dismissal
and readmission are made by each academic unit. These decisions are
based on the university’s undergraduate grade point average (UGPA) and
the program grade point average (PGPA). The unit notifies students after
the end of each semester if their status changes. Notifications of such
academic actions are officially made through the student’s university
e-mail account.

Undergraduate students are in good standing when they have a
cumulative UGPA of at least 2.00 and a cumulative PGPA greater than
the program requirement. Each unit determines their own program
requirements.

After the first 12 degree-applicable semester hours at the University,
students who have either a cumulative UGPA below 2.00, or a cumulative
PGPA below the program requirement, will be placed on academic
warning. Such students will be notified and strongly encouraged to seek
assistance from their advising center.

In any semester subsequent to an academic warning, students whose
cumulative UGPA falls below 2.00, or cumulative PGPA falls below
the program requirement, will be placed on academic probation for
the next semester of enrollment. Academic probation is considered
a serious warning that students are making unsatisfactory progress
toward completion of the academic requirements for a particular degree
program. Students on academic probation may be ineligible to hold
office in campus organizations, to go out on co-op, internship, or clinical
assignments, or to represent the school or the University in any official
capacity.

Students on academic probation shall be removed from that standing
at the end of the first subsequent semester in which they achieve a
cumulative UGPA of at least 2.00 and a cumulative PGPA greater than
the program requirement. Such students will return to good standing.
Students on academic probation shall be placed on academic suspension
at the end of the first subsequent semester in which their semester UGPA
falls below 2.00, or semester PGPA falls below the program requirement.

Students on academic suspension are not permitted to enroll for at
least one program semester. During this period, individuals should
seriously reexamine their previous accomplishments in terms of their
chosen career objectives. After one semester, students who believe
that a reasonable opportunity for future successful performance exists
may petition the unit’s committee for re-admittance. The petition must
be received no later than July 1 for readmission for the fall semester,
November 1 for the spring semester, and May 1 for the summer terms.
Students who are granted reinstatement will be readmitted on academic
probation. Readmission of suspended students is not guaranteed.

Students will not be reinstated more than twice; the third suspension
is an academic dismissal. Students academically dismissed can only
return through special permission from the enrollment unit. Students
who are suspended or dismissed are eligible to apply for admission to
another unit and may be admitted if they meet minimum unit admission
standards. Students admitted to another unit may not enroll in any
courses in the unit from which they were dismissed, with the exception
of courses needed to complete general education or other degree
requirements offered only by the unit from which they were dismissed.

Class Attendance
The academy requires student participation in the learning process,
measurement of student progress, and the fulfillment of basic course
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Because the university recognizes that educational experiences extend beyond the classroom and campus, faculty must be flexible with students acting as official representatives of the university or participating in university-sanctioned events or activities that require absence from class. A university-sanctioned event or activity shall be one in which a student represents the university to external constituencies in academic or extra-curricular activities. These include but are not limited to student government congresses, intercollegiate athletic and debate contests, music competitions, academic meetings, and conferences. The deans, the student government association, or faculty sponsors of recognized student organizations may petition the provost to designate other specific events as university-sanctioned.

When students’ participation in university-sanctioned events or activities requires them to be absent from a class (or classes) during which an examination or other measurement of academic progress is scheduled, faculty will provide students with opportunities to be evaluated at other times and by comparable alternative evaluation methods within a reasonable period of time before or after the absence. Students are responsible for material covered or work assigned in any class for which they have been provided an excused absence.

**Dean’s List and Scholars**

Students who complete twelve or more graded credits in one semester are eligible for the Dean’s List and designation as a Dean’s Scholar. The following distinctions are made:

- **Dean’s List**.............. UGPA 3.5 and above, with no grades of I, X, U, or C-minus or below
- **Dean’s Scholar**......... UGPA = 4.0, with no grades of I, X, or U

Developmental courses (courses below 100 level) and grades of P are not prohibited in Dean’s List or Dean’s Scholar qualifications but cannot be used to meet the graded-credits minimum requirement. Any petitions arising from unusual circumstances (such as part-time status) should be filed with the students’ advising center within two weeks of the beginning of the next term of enrollment.

**Final Examinations**

Comprehensive final examinations may be administered only on the date and time prescribed in the online university final exam schedule. Comprehensive examinations may not be given on the last regular day of class or during the reading period. Examinations which cover a limited portion of the course work may be given during the last regular class period. Students must be notified of the type of examinations to be given in the course as well as each examination’s percentage of the course grade. This information, along with scheduled dates and times, should be included in the course syllabus.

The comprehensive final examination in a course should be given as scheduled and not at other times, even if the faculty member and all students in a course agree to such a change. However, students who have more than two exams in one calendar day, or two examinations at the same time, may reschedule. Students should contact the instructors as early in the semester as possible, no less than one week prior to the last class meeting, to resolve any scheduling issues. If a resolution cannot be reached, students should contact their advising center. The dean’s office is responsible for enforcing the final exam policy and resolving any conflicts or issues.

**Grading**

The university awards letter grades that are translated into quality points to determine a grade point average. The “+/-” grading system may be used by instructors to help students understand their performance more accurately. Under this system, quality points are assigned as follows:

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</tr>
<tr>
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</tr>
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<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

The grade A+ is given for extraordinary work and appears on the transcript with the “plus” qualification, but it awards no additional quality points. The grade F means not passing and earns neither semester hours toward graduation nor quality points; however, the number of semester hours attempted is computed into the point standing, so that an F has a negative effect on the point standing. All missing grades change to failing grades one year after the completion of the semester in which the course was taken.

Other letter grades, all of which do not enter into the point standing, include the following:

- **AU** means Audit.
- **I** means Incomplete Work.
- **P** means Passing.
- **S and U** mean Satisfactory and Unsatisfactory.
- **W** means Withdraw.
- **X** means No Basis for Grade.

For a course taken on a pass-fail basis a grade P is given for achievement equivalent to the standards for the grades A through D in the same course and earns the designated number of semester hours toward graduation. For courses using S and U, an S will earn semester hours, but those hours may not be counted toward the minimum number of hours required for graduation or a degree. The grade X is available only for graduate level courses for which the work is not yet finished due to the nature of the study.

The university’s undergraduate grade point average (UGPA) is determined by dividing the total number of quality points earned by the total number of semester hours attempted with earned grades. The UGPA takes into account all undergraduate course work taken at the university, except that courses numbered below the 100 level will not be used in the earned hours or UGPA calculations. Grades and quality points earned at other institutions are also not incorporated into the UGPA.

A program GPA is calculated by including only those courses used to satisfy degree requirements. Courses for which transfer credit has been awarded at another institution are not included in the determination of the program GPA.
Incompletes

Students unable to complete course work because of conditions beyond their control may be granted the grade I, which stands for Incomplete, so that the work can be completed after the end of the semester. Such conditions include hospitalizations, death in immediate family, and prolonged sickness. The grade I may not be used solely to extend the available time in a semester for students who fall behind for reasons under their control.

The grade I may be assigned at the discretion of the course instructor if all of the following conditions are met:

The majority of the course work was completed prior to the end of the semester;
The student is in good standing to pass the course upon successful completion of the remaining work;
The final portion of the course work could not be completed for reasons beyond the student’s control.

If requested to do so, the student must supply the instructor with documentation of the extenuating circumstances. The instructor is encouraged to provide to the student a written statement of the expectations and requirements for completing the course work.

Students must complete the course work no later than the last day of classes for the next regular fall or spring semester. If the work is completed by the deadline, the instructor submits a change of grade from I to the letter grade earned. The change of grade form must be submitted by the instructor to the registrar’s office by the last day to submit grades for the semester when the student’s completed coursework was due. Failure of the student to complete the work by the deadline will result in an automatic change of grade from I to F unless the dean’s office grants an extension.

Students may not graduate with an I grade on the transcript. Students with an incomplete should not register again for the course. An I carries no quality points until it is changed to a letter grade.

Academic Forgiveness

Academic Forgiveness allows currently enrolled students or students who are eligible to re-enroll without seeking readmission to request the adjustment of their records for one or more continuous entire semesters of previous college work. If the appropriate committee within the students’ enrollment unit or the unit in which they seek to re-enroll finds there are extenuating circumstances that warrant such action, the committee may rule the students eligible for academic forgiveness. The committee will approve petitions only if future academic success seems plausible, with the expectation that such forgiveness should typically have a positive effect on persistence toward eventual graduation.

Forgiveness will only be applied to the record after the successful completion of at least 12 hours after the last term for which forgiveness is to be requested. The 12 hours should be in degree applicable courses with the necessary semester grade point average designated by their enrollment unit. After these 12 hours have been attempted, students may petition the appropriate committee for academic forgiveness, designating the semester or consecutive sequence of semesters to which the forgiveness process is to apply. If approved, all course grades and credit hours for the forgiven semesters will be voided. Students may not be granted academic forgiveness more than once.

The voided grades and credit hours will not be considered for degree requirements or quality-point computations, but will remain on the students’ transcript. Academic actions, such as probation or dismissal, recorded at the end of the voided terms, will also remain. While forgiven course grades are removed from the calculation, the course work does remain a part of the students’ permanent record and the forgiven work may be considered for financial aid, NCAA purposes, and may be evaluated if applying for honors or graduate study.

Academic forgiveness is an internal policy. The University of Louisville cannot guarantee how the work will be viewed by another university should students choose to transfer. Students considering this option are strongly encouraged to consult with their academic advisor for guidance.

Academic Fresh Start

Students who are re-admitted to the university after an absence of two or more years may apply for a Fresh Start (http://louisville.edu/admissions/apply/transfer/admissions/app-resources/fresh-start-application), i.e., may request that the university reset the student’s cumulative grade point average and hours earned during the period of previous residency.

Students must take at least 30 hours of coursework at the University after re-admission and before graduation for Fresh Start to be applicable. Students are eligible for only one Fresh Start. Students who have earned a baccalaureate degree from the University are not eligible for Fresh Start.

If the Fresh Start is approved by the university, students resume an academic program with no cumulative grade point average from the prior enrollment. All courses taken remain on the permanent record. Courses with passing grades are counted for credit and may be used to satisfy program requirements.
Students may be required to retake courses from academic terms covered by Fresh Start if the content-currency or major-GPA rules of a degree program, department or unit so dictate. Students will be notified at the time of readmission of any additional requirements to be fulfilled in remedying these conditions.

Although Fresh Start affects cumulative grade point average, it has no impact on earned and attempted hours. All courses taken at the university will still be used for financial aid. Financial aid recipients will still have to adhere to the Satisfactory Academic Progress (SAP) policy administered by the Student Financial Aid Office. Students who are granted a Fresh Start are not automatically cleared of any SAP issues. If interested in submitting a SAP appeal, students should contact the Student Financial Aid Office.

Courses taken under the repeat-to-replace option during the period covered by a Fresh Start will not be counted against the maximum repeats allowed under university policy. Financial aid for repeat courses is calculated according to federal regulations.

For the purposes of scholastic action and advising, students are initially assigned to the same academic standing as when they last attended the university. Thereafter, students are subject to the conditions of probation, suspension and dismissal that govern all students. GPA calculations for graduation honors follow the rules established by the students’ enrollment unit.

**Academic Standing**

**University Policies: Academic Standing**

Decisions involving academic warning, probation, suspension, dismissal and readmission are made by each academic unit. These decisions are based on the university’s undergraduate grade point average (UGPA) and the program grade point average (PGPA). The unit notifies students after the end of each semester if their status changes. Notifications of such academic actions are officially made through the student’s university email account.

Undergraduate students are in good standing when they have a cumulative UGPA of at least 2.00 and a cumulative PGPA greater than the program requirement. Each unit determines their own program requirements.

**Academic Warning, Academic Probation, and Academic Suspension**

After the first 12 degree-applicable semester hours at the University, students who have either a cumulative UGPA below 2.00, or a cumulative PGPA below the program requirement, will be placed on academic warning. Such students will be notified and strongly encouraged to seek assistance from their advising center.

In any semester subsequent to an academic warning, students whose cumulative UGPA falls below 2.00, or cumulative PGPA falls below the program requirement, will be placed on academic probation for the next semester of enrollment. Academic probation is considered a serious warning that students are making unsatisfactory progress toward completion of the academic requirements for a particular degree program. Students on academic probation may be ineligible to hold office in campus organizations, to go out on co-op, internship, or clinical assignments, or to represent the school or the University in any official capacity.

Students on academic probation shall be removed from that standing at the end of the first subsequent semester in which they achieve a cumulative UGPA of at least 2.00 and a cumulative PGPA greater than the program requirement. Such students will return to good standing. Students on academic probation shall be placed on academic suspension at the end of the first subsequent semester in which their semester UGPA falls below 2.00, or semester PGPA falls below the program requirement.

Students on academic suspension are not permitted to enroll for at least one program semester and must withdraw from any courses for the semester in which the suspension is applied. During this period, individuals should seriously reexamine their previous accomplishments in terms of their chosen career objectives.

**Readmission/Reinstatement**

After one semester, students who believe that a reasonable opportunity for future successful performance exists may petition the unit’s committee for re-admittance. The petition must be received no later than July 1 for readmission for the fall semester, November 1 for the spring semester, and May 1 for the summer terms. Students who are granted reinstatement will be readmitted on academic probation. Readmission of suspended students is not guaranteed.

Students will not be reinstated more than twice; the third suspension is an academic dismissal. Students academically dismissed can only return through special permission from the enrollment unit.

Students who are suspended or dismissed are eligible to apply for admission to another unit and may be admitted if they meet minimum unit admission standards. Students admitted to another unit may not enroll in any courses in the unit from which they were dismissed, with the exception of courses needed to complete general education or other degree requirements offered only by the unit from which they were dismissed.

**Unit-Specific Policies**

In addition to the university-wide policies regarding Academic Standing, students may be subject to the unit-specific requirements listed below.

**College of Arts and Sciences**

*Warning, Probation, Suspension, and Readmission*

Students on Academic Warning are limited to enrollment for 13 credit hours in a fall or spring semester and 10 credit hours for the summer terms.

The enrollment of students on Academic Probation will continue to be limited to a maximum of 13 semester hours in a fall or spring semester.
and 10 credit hours for the summer terms. Students on probation also may be subject to specified course registration requirements, or other actions deemed appropriate by the College. Students who are admitted to the College conditionally who have a grade point average below 2.0 at the end of their first semester of enrollment at the University of Louisville will be placed on Academic Probation.

Students on Academic Suspension and will be required to sit out at least one semester: students suspended after a fall semester must sit out the following spring semester; students suspended after a spring semester must sit out the following summer and fall semesters; and students suspended after a summer semester must sit out the following fall semester. Students must sit out at least one calendar year after any subsequent suspension.

College of Education and Human Development

Academic Probation Policy

CEHD students on Academic Probation may enroll in no more than 13 semester hours in a semester (10 hours during the summer).

Students on Academic Probation must earn a 2.5 grade point average (based on degree applicable credits) in the academic probation semester to continue on Academic Probation.

Students on Academic Probation whose cumulative grade point average is below 2.25 (based on degree applicable credits) will be placed on Academic Suspension and will be required to sit out at least one semester (summer terms excluded). Courses taken at another institution during a suspension semester may not be used if students are readmitted to the College of Education and Human Development.

Dismissal Policy

Students who are suspended the third time from the College of Education and Human Development are academically dismissed. A student who has been dismissed from the College of Education and Human Development may apply for readmission after one full year. If a dismissed student is admitted to any other college or university during that year, credits earned will not apply toward a degree granted by the College of Education and Human Development.

Kent School of Social Work

Lower Division: A cumulative GPA of 2.5 or above is required to remain in Good Standing. If a student's cumulative GPA falls below 2.5, then the student will be given a warning and will be required to meet with the BSW Program Manager for planning and oversight. If in the following semester the student's cumulative GPA remains less than a 2.5, the student will be placed on probation and an academic review will be required. A cumulative GPA of 2.5 or above in the following semester will be required to return to Good Standing. Students will be placed on suspension following probation if the cumulative GPA remains below 2.5.

Kent students must sit out at least one semester excluding summer when suspended. The student may apply to another unit.

No student will be reinstated more than once with Kent School and no more than twice with UofL. A third suspension is an academic dismissal from UofL. A written petition is required for readmission, which is not guaranteed.

Upper Division: Upper Division students will be placed on suspension following probation if cumulative GPA remains below 2.5 for three consecutive semesters.

The Associate Dean for Academic Affairs' Office will notify students at the end of each semester if academic reviews are needed, based on their GPA. Apart from reviews based on GPA, any faculty person may recommend a review for any students who are perceived to be in academic difficulty or who appear to have engaged in inappropriate conduct in violation of the National Association of Social Workers Code of Ethics, or the Code of Students Rights and Responsibilities.

If a student earns an F in a non-social work course or is on academic warning, the student is required to attend two meetings with the student advisor or BSW Program Manager, (one before mid-term to talk about strategies; one after mid-term). These meetings will not constitute academic reviews and will be documented using existing procedures for documentation of undergraduate advising sessions.

School of Music

The School of Music follows university-wide policies, except that students are in good standing when they have a minimum cumulative grade point average of 2.5.

Undergraduate students on Academic Probation are:
School of Nursing

Lower Division Progression

For Lower Division Traditional BSN program students, the School of Nursing follows university-wide policies, except that students are in good standing when they have a minimum university cumulative grade point average of 2.8.

Pathophysiology and Pharmacology

Students in the Traditional BSN Program must satisfactorily complete NURS 338 Lifespan Pathophysiology and NURS 395 Nursing Pharmacotherapeutics with a grade of C or better in order to progress to the upper division clinical cohort. If students do not satisfactorily complete both NURS 338 and NURS 395 they must retake them to be eligible to reapply to upper division to compete for an upper division clinical space.

Failure to satisfactorily complete both courses results in dismissal from the program.

Students who do not pass the following classes will be dismissed from the program:

- BIOL 260
- BIOL 261
- BIOL 262

Upper Division Progression

Students admitted to the Upper Division of Nursing must earn a C or above in all nursing courses. Good standing in the Upper Division for the Traditional BSN program is a minimum cumulative university GPA of 2.5. RN-BSN students must maintain a minimum cumulative university GPA of 2.0.

Students admitted to the Upper Division are allowed to repeat a nursing course only one time. Students who earn a grade below C in two Nursing (NURS) courses numbered 300 or above, or a second attempt at a nursing course will be dismissed from the program. This includes the required Pharmacology and Pathophysiology courses taken in Lower Division. For example, if a student fails NURS 338 in lower division and then fails an additional course numbered 300 or higher in upper division, this is two nursing failures and the student will be dismissed from the program.

A student who wishes to repeat a nursing course should submit a Permit to Repeat Course form to the Office of Student Services, School of Nursing for approval. Once permission is granted, the student will be allowed to repeat the course on a space available basis.

If suspended from the program, students must meet with their advisor to revise their program of study, determine remediation, request re-enrollment on a space available basis, and plan to submit an Admissions Petition and official UofL Undergraduate application to the Office of Admissions in accordance with University guidelines. Re-admission is not guaranteed.

If dismissed from the program, the student has the right to file a petition to be allowed to remain in the program. If the petition to be allowed to remain in the program is denied, dismissal from the program is permanent. For petition deadlines please call the Office of Student Services at (502) 852-1196.

Speed School of Engineering

A program GPA is calculated by including only those courses used to satisfy degree requirements. Courses for which transfer credit has been awarded are not included in either GPA calculation.

Students have the responsibility to know their current status. The University routinely notifies students when their status changes, but such notification may not be possible before the beginning of the semester.

Good Standing

The Speed School of Engineering follows university-wide policies, except that students are in good standing when they have a minimum cumulative university GPA and PGPA of 2.25.

Academic Warning

Students on Academic Warning are limited to enrollment for 13 credit hours (7 credit hours during the Speed School summer term). A student placed on Academic Warning will have the following semester to raise the cumulative university GPA to at least 2.25. If that does not occur, the student will then be placed on Academic Probation.

Academic Probation

In any semester subsequent to that described in Academic Warning above, an undergraduate student who has less than a 2.25 cumulative university GPA will be placed on Academic Probation for the next semester in which the student enrolls. Students on Academic Probation are notified that their achievement is below expectations and are subject to course and/or credit hour limitations. During a semester on Academic Probation, no student may enroll in more than 13 credit hours (7 credit hours during the Speed School summer term). Students on Academic Probation will have their records evaluated at the end of the probationary semester with one of the following outcomes:

- Students whose cumulative university GPA and semester GPA are both at or above 2.25 will be restored to good standing in the Speed School.
• Students whose cumulative university GPA is still below 2.25 but who earned a semester GPA of at least 2.5 will be maintained on probation.

• Students whose cumulative university GPA is still below 2.25, and who earned a semester GPA at or above 2.25 but below 2.5, may petition for continuation on probation. The petition describing the student’s plan of action to return to good standing must be submitted to the school’s Standards and Admissions Committee. Students who do not submit a petition will be placed on Academic Suspension.

• Students whose cumulative university GPA and semester GPA are both below 2.25 will be placed on Academic Suspension and will be required to sit out at least one semester.

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The academy requires student participation in the learning process, measurement of student progress, and the fulfillment of basic course requirements. Faculty members will provide students in their classes with clear syllabi, including attendance requirements and dates for required measurements or field experiences. Attendance policies should allow excused absences for university-sanctioned events. Although each college, school, or academic unit of the University of Louisville creates its own regulations concerning class attendance, all units hold students responsible for materials covered, lectures given, papers due, exams scheduled, or other evaluative measures administered.

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The grade A+ is given for extraordinary work and appears on the transcript with the "plus" qualification, but it awards no additional quality points. The grade F means not passing and earns neither semester hours toward graduation nor quality points; however, the number of semester hours attempted is computed into the point standing, so that an F has a negative effect on the point standing. All missing grades change to failing grades one year after the completion of the semester in which the course was taken.

Other letter grades, all of which do not enter into the point standing, include the following:

- **AU** means Audit.
- **I** means Incomplete Work.
- **P** means Passing.

### S and U mean Satisfactory and Unsatisfactory.

### W means Withdrew.

### X means No Basis for Grade.

For a course taken on a pass-fail basis a grade P is given for achievement equivalent to the standards for the grades A through D in the same course and earns the designated number of semester hours toward graduation. For courses using S and U, an S will earn semester hours, but those hours may not be counted toward the minimum number of hours required for graduation or a degree. The grade X is available only for graduate level courses for which the work is not yet finished due to the nature of the study.

The university's undergraduate grade point average (UGPA) is determined by dividing the total number of quality points earned by the total number of semester hours attempted with earned grades. The UGPA takes into account all undergraduate course work taken at the university, except that courses numbered below the 100 level will not be used in the earned hours or UGPA calculations. Grades and quality points earned at other institutions are also not incorporated into the UGPA.

A program GPA is calculated by including only those courses used to satisfy degree requirements. Courses for which transfer credit has been awarded are not included in the calculation. The program GPA is used for determination of honors and satisfaction of degree requirements.

### Incompletes

Students unable to complete course work because of conditions beyond their control may be granted the grade I, which stands for Incomplete, so that the work can be completed after the end of the semester. Such conditions include hospitalizations, death in immediate family, and prolonged sickness. The grade I may not be used solely to extend the available time in a semester for students who fall behind for reasons under their control.

The grade I may be assigned at the discretion of the course instructor if all of the following conditions are met:

- The majority of the course work was completed prior to the end of the semester;
- The student is in good standing to pass the course upon successful completion of the remaining work;
- The final portion of the course work could not be completed for reasons beyond the student's control.

If requested to do so, the student must supply the instructor with documentation of the extenuating circumstances. The instructor
is encouraged to provide to the student a written statement of the expectations and requirements for completing the course work.

Students must complete the course work no later than the last day of classes for the next regular fall or spring semester. If the work is completed by the deadline, the instructor submits a change of grade from I to the letter grade earned. The change of grade form must be submitted by the instructor to the registrar’s office by the last day to submit grades for the semester when the student’s completed coursework was due. Failure of the student to complete the work by the deadline will result in an automatic change of grade from I to F unless the dean’s office grants an extension.

Students may not graduate with an I grade on the transcript. Students with an incomplete should not register again for the course. An I carries no quality points until it is changed to a letter grade.

Graduation Policies

Information on policies related to degree requirements and graduation at the University of Louisville can be found on this page or by clicking on the following links to topic-specific pages:

- Catalog Year (p. 77)
- General Education: Cardinal Core Requirements (p. 78)
- Graduation and Degree Requirements (p. 80)
- Graduation with Academic Honors (p. 83)
- Residency Requirements (p. 84)

These policies are effective August 20, 2018 (Fall 2018 semester). Students enrolled in a term before this effective date should consult with an advisor in their enrollment unit (http://louisville.edu/advising/centers) if they feel that they are disadvantaged by any change from 2017-18 policies.

Previous catalogs are available via the archive page of this catalog (p. 791). Reference copies of the university catalog are maintained by University Libraries, the university registrar, the Student Government Association (SGA) Office, the student grievance officer, and the Dean of Students/Vice Provost for Student Affairs.

Catalog Year

The university issues a catalog annually before the summer term, and the degree requirements stated in the annual issue apply to all students who matriculate during that year. These requirements constitute the “catalog year” for those students and set their degree requirements as long as they are enrolled without a break of more than two calendar years. In other cases, a student may elect to follow the requirements of a later catalog year. The student’s advisor will assist in identifying the need and benefit of such an election. The advisor must record this election in the student’s permanent record.

Students may petition for a variance from the stated degree requirements of their catalog year. Any variance must be approved by the dean or unit advising director (for unit and major degree requirements) or the provost (for general education or Cardinal Core requirements).

Students readmitted after an absence of two or more calendar years must reapply for admission. If readmitted, they are subject to the catalog year requirements in force at the time of their readmission.

Note: The degree requirements for students enrolled before summer 2018 have been migrated to the university’s updated General Education program, Cardinal Core, with provision for differences between the old general-education program and the Cardinal Core.

General Education: Cardinal Core Requirements

Beginning in summer 2018, all students are required to meet the requirements of the Cardinal Core general education program. Students who matriculated to the university before summer 2018 should consult with their advisors about transitioning from the previous general education program to Cardinal Core.

The Cardinal Core program at the University of Louisville prepares students to do the advanced work needed for their baccalaureate degrees and prepares them to contribute to society throughout their lives through their professional work and civic engagement. The program emphasizes the development of key intellectual skills relevant to any career path: critical thinking, quantitative reasoning, effective communication, and the understanding of historical, social, and cultural diversity. Students will develop skills and acquire knowledge in the content areas of arts and humanities, historical perspectives, oral communication, quantitative reasoning, social and behavioral sciences, natural sciences, written communication, and the competency area of diversity in the United States and globally. Upon completion of the program, students will be prepared to analyze complex problems and evaluate possible courses of action in an environment characterized by diversity and the need for sustainable solutions.

For detailed information, please refer to the General Education: Cardinal Core (http://catalog.louisville.edu/undergraduate/general-education-requirements) page in this catalog.

Graduation and Degree Requirements

The conferring of degrees by the University of Louisville is conditional upon completion of all requirements in the opinion of the unit faculty and dean, regardless of the students’ participation in commencement. Students are strongly urged to run preliminary degree audits on a regular basis so that possible deficiencies in degree requirements can be identified early.

The baccalaureate degree (Bachelor’s of Arts, Fine Arts, Music, or Science) is the undergraduate degree offered by UofL. It is awarded to students who have completed both university-wide requirements and the requirements of the selected degree program. The following university-wide requirements apply to all baccalaureate degrees; the student must:

- Complete an online degree application by the specified date at the beginning of the semester of graduation.
Minimum criteria for honors are as follows:

- Complete an application for and be accepted for admission into a major program.
- Satisfy all Cardinal Core requirements.
- Complete all required courses and program requirements listed in the degree program section of this catalog.
- Have a cumulative university GPA of at least 2.00, or higher if specified by the program.
- Have a cumulative program GPA of at least 2.00, or higher if specified by the program.
- Complete a minimum of 120 hours applicable to the program, or more if required by the program.
- Complete at least 60 hours at an accredited four-year institution.
- Complete at least 25-percent of the total credit hours required for the degree in residence at the University of Louisville.
- Complete 30 of the last 36 hours in residence at the University of Louisville.
- Have neither missing nor outstanding I or X grades.
- Satisfy any additional requirements specified by the major program and unit.
- Be discharged of all financial obligations to the University.
- Be formally recommended for the baccalaureate degree by the unit faculty and dean and approved by the Board of Trustees.

To be awarded a second bachelor's degree, students must earn a minimum of thirty additional semester hours in the program. For students pursuing two degrees simultaneously, these thirty hours will be added to the minimum total of semester hours needed for the degree requiring the least number of hours.

Students who want to take a minor must apply for admission to the minor program after acceptance into a major program. The coursework requirements for a minor are prescribed by a department or unit and consist of at least 18 semester hours. Satisfactory completion of coursework required for a minor will be certified as completion of the minor, and will be shown on the student's transcript only if the student's application has been accepted by the department or program offering the minor. Most minor programs are open to students from all units.

Graduation with Academic Honors

Baccalaureate degree students who have earned a minimum of 60 hours of degree credit in residence at the University of Louisville will be eligible for consideration to graduate with honors. Students who have re-entered the university under the fresh-start policy must have earned at least 60 credit hours since their return to be considered for academic honors.

Commencement programs will list eligible students as a Candidate for Honors based on their having earned both undergraduate and program grade point averages of 3.5 or higher prior to the semester preceding graduation. Final determination of a student's eligibility to graduate with academic honors will be based on the student's standing upon completion of the degree. The name of the honor is decided by the unit.

Minimum criteria for honors are as follows:

- Cum Laude or Honors: 3.50 undergraduate and program grade point averages
- Magna Cum Laude or High Honors: 3.75 undergraduate and program grade point averages
- Summa Cum Laude or Highest Honors: 3.90 undergraduate and program grade point averages

Requirements for graduation with academic honors are determined by each academic unit. In addition to the minimum criteria, units may specify additional requirements for grade point averages and additional work such as honors projects or honors theses. Students should consult their advisor concerning eligibility and requirements for graduation with academic honors. The dean's office will make any final decisions concerning eligibility.

Students who were admitted to the University Honors program may be eligible to graduate as an Honors Scholar. Students who complete the necessary coursework with the required GPA will earn the designation of University Honors Scholar on both their transcript and diploma. Students who earn this distinction are awarded a medal and recognized at an awards ceremony prior to university commencement.

Residency Requirements

Students earning baccalaureate degrees are required to complete at least 25 percent of the total credit hours required for the degree (including Cardinal Core credit hours) at the University of Louisville. Students earning baccalaureate degrees are also required to complete 30 of their last 36 semester hours at the University of Louisville. Students earning associate degrees are required to complete a minimum of 15 of their last 18 semester hours at the University of Louisville. Additionally, transfer students must take a minimum of 12 credit hours in their major at the University.

Catalog Year

The university issues a catalog annually before the summer term, and the degree requirements stated in the annual issue apply to all students who matriculate during that year. These requirements constitute the "catalog year" for those students and set their degree requirements as long as they are enrolled without a break of more than two calendar years. In other cases, a student may elect to follow the requirements of a later catalog year. The student's advisor will assist in identifying the need and benefit of such an election. The advisor must record this election in the student's permanent record.

Students may petition for a variance from the stated degree requirements of their catalog year. Any variance must be approved by the dean or unit advising director (for unit and major degree requirements) or the provost (for general education or Cardinal Core requirements).
Students readmitted after an absence of two or more calendar years must reapply for admission. If readmitted, they are subject to the catalog year requirements in force at the time of their readmission.

**Note:** The degree requirements for students enrolled before summer 2018 have been migrated to the university’s updated General Education program, Cardinal Core, with provision for differences between the old general-education program and the Cardinal Core.

**General Education: Cardinal Core Requirements**

**Cardinal Core Overview**

Beginning in summer 2018, all students are required to meet the requirements of the Cardinal Core program. Students who matriculated to the university before summer 2018 should consult with their advisors about transitioning from the previous general education program to Cardinal Core.

The Cardinal Core program at the University of Louisville prepares students to do the advanced work needed for their baccalaureate degrees and prepares them to contribute to society throughout their lives through their professional work and civic engagement. The program emphasizes the development of key intellectual skills relevant to any career path: critical thinking, quantitative reasoning, effective communication, and the understanding of historical, social, and cultural diversity.

Students develop skills and acquire knowledge in the content areas of arts and humanities, historical perspectives, oral communication, quantitative reasoning, social and behavioral sciences, natural sciences, written communication, and the competency area of diversity in the United States and globally. Upon completion of the program, students are prepared to analyze complex problems and evaluate possible courses of action in an environment characterized by diversity and the need for sustainable solutions.

Students should demonstrate proficiency (through coursework or external credit) in the three skills areas (written communication, oral communication, and quantitative reasoning) before completing the first 30 degree-applicable credit hours earned at the University of Louisville. Within 60 hours, the student should have completed 21 hours of Cardinal Core courses.

The Cardinal Core program requires a minimum of 31 credit hours from approved course categories as outlined in the table below. Students must complete a minimum of 12 hours in the skills courses, a minimum of 19 hours in the disciplinary perspectives courses, and within the 31 hours, students must accumulate 6 hours in diversity credit.

### Cardinal Core Content Areas and Required Credit Hours

<table>
<thead>
<tr>
<th>Area</th>
<th>Required Credit Hours</th>
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<td><strong>Skills</strong></td>
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<tr>
<td>Oral Communication (OC)</td>
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<tr>
<td>Quantitative Reasoning (QR)</td>
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<td><strong>Disciplinary Perspectives</strong></td>
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<tr>
<td>Arts &amp; Humanities (AH)</td>
<td>6</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences (SB)/Historical Perspective (SBH)</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences/Natural Sciences Lab (S, SL, B)</td>
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<tr>
<td><strong>Diversity</strong></td>
<td></td>
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<tr>
<td>U.S. Diversity (D1), 3 hours</td>
<td>see note</td>
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<tr>
<td>Global Diversity (D2), 3 hours</td>
<td>see note</td>
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</tbody>
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This requirement does not add hours to the total Cardinal Core Program. Diversity requirements will be met by taking courses in other Cardinal Core categories that also carry the D1 or D2 designation.

Total Hours Required: 31

1. Students must take at least 2 courses from different disciplines to satisfy the Arts & Humanities (AH) requirement.
2. Students must take at least 2 courses from different disciplines—with a minimum of 3 hours in Historical Perspectives (SBH) coursework—to satisfy the Social & Behavioral Sciences (SB) and Historical Perspectives (SBH) requirement.
3. Students must take a lecture and lab in a single discipline and an additional 3 hours in a second discipline to satisfy the Natural Sciences (S, SL, B) requirement.
4. If met by taking courses in other content areas that also carry the D1 or D2 designation, the Diversity requirements add no additional hours to the overall requirements of the Cardinal Core program.

For a list of approved Cardinal Core courses, please visit the Cardinal Core website (http://louisville.edu/provost/ger).

### Cardinal Core Content Areas

#### Written Communication

Written communication is the ability to develop and express ideas, opinions, and information in appropriate written forms. To fulfill this requirement, students will complete a substantial amount of writing, including several texts that go through the writing process.

**Requirement:** 6 hours (WC). The first 3 hours must be a writing course in or credit approved by the Department of English.

#### Oral Communication

Oral communication is the ability to convey ideas, emotions, and information through speech.

**Requirement:** 3 hours (OC)

#### Quantitative Reasoning

Quantitative reasoning is concerned with solving real-world problems through mathematical methods.
Components in Diversity

Requirement: 3 hours in quantitative reasoning (QR)

Disability Resource Center Assistance with QR Requirement
A student who believes that his or her inability to complete a course that fulfills the quantitative reasoning Cardinal Core requirement is a result of a disability should contact the Disability Resource Center (DRC), which will outline the process for documenting such a disability, explain what courses can be substituted if a disability is diagnosed, and will make clear to the student that such a substitution will make it impossible to take classes for which Cardinal Core quantitative reasoning courses are prerequisite, thus greatly limiting the majors the student can elect. All such courses of action must be approved by the provost.

Arts and Humanities
Arts and humanities are concerned with understanding of art, music, theatre, literature, philosophy, and religious thought.

Requirement: 6 hours in the arts and/or humanities (AH), with at least two courses from different disciplines.

Social and Behavioral Sciences
Social and behavioral sciences are concerned with understanding human behavior, human interactions, human environment, and the related social structures and forms.

Requirement: 6 hours (SB): At least two courses from different disciplines and 3 hours must be in Historical Perspective (SBH).

Natural Sciences
Natural sciences are concerned with understanding the laws of nature and the physical world.

Requirement: 7 hours: lecture (S) and lab (SL) or combined lecture and lab (B) in a single discipline; an additional 3 hours in a second discipline.

Competency in Diversity
Diversity refers to the difference that differences make. All courses in diversity will examine the ways in which components of identity and social and material stratification positively or negatively affect life experiences, opportunities, and sense of belonging in national or global contexts.

Students must take 6 hours in diversity, with 3 hours in U.S. diversity (D1) and 3 hours in global diversity (D2). The diversity requirements will be met by taking courses in other Cardinal Core categories that also carry the D1 or D2 designation. This requirement, therefore, does not add hours to the total Cardinal Core program.

- U.S. Diversity
Courses in U.S. diversity (D1) will broaden students’ understanding of how the experiences and opportunities of individuals and groups in the United States are shaped by the various historical, cultural and social structures and processes of stratification. These courses will center on race, socio-economic status, and gender, and/or their interactions with other social demographics.

Requirement: 3 hours

- Global Diversity
Courses in global diversity (D2) will broaden students’ understanding of how the experiences and opportunities of individuals and/or groups in non-U.S. societies are shaped by the various historical, cultural and social structures and processes of stratification locally or globally.

Requirement: 3 hours

Petitions for Diversity (D) Credit
Students may receive one diversity credit by petitioning the Cardinal Core Curriculum Committee under the following claims.

- Diversity (D) Credit for Study Abroad Courses
Students may petition for diversity (D) credit for coursework undertaken as part of a study-abroad program prior to participation. Courses not previously approved for Cardinal Core credit will not be accepted for diversity (D) credit even if they are part of a university-approved study-abroad program. Petitions must be submitted to the committee through the Cardinal Core website.

Information on submitting a petition for transfer credit is available on the Cardinal Core website (http://louisville.edu/provost/ger/diversity).

- Diversity (D) Credit for Military Experience
A student may petition the Cardinal Core Curriculum Committee to evaluate transfer courses identified by the Admissions Office as not equivalent to any existing approved diversity (D) course. The student requesting the evaluation must provide a catalog course description and a syllabus of the course.

Information on submitting a petition for transfer credit is available on the Cardinal Core website (http://louisville.edu/provost/ger/diversity).

- Diversity (D) Credit for Military Experience
A student may petition for diversity (D) credit based on military experience. The petition must include an essay identifying which form of diversity (D) credit is requested, describing and explaining how the experience met the learning outcomes of the diversity (D) competency.

Petitions must be submitted to the committee. Detailed instructions are available on the Cardinal Core website (http://louisville.edu/provost/ger/diversity).

Only one diversity credit (D1 or D2) may be earned by petition.

Cardinal Core Guidelines
These rules provide guidelines and available options for student course selection for completion of the Cardinal Core (general education) requirements (effective summer 2018). In alignment with university policy, the requirements, rules, policies, and the associated course listing for Cardinal Core in this catalog are for summer 2018 through spring 2019 and apply to all students enrolled in the university during this period.
Questions concerning these guidelines can be addressed to gecc@louisville.edu for the consideration of the committee.

**Course Substitutions and Appeals**

Students, departments, and units may not attempt to substitute for a Cardinal Core approved course any University of Louisville course not on the Cardinal Core approved list. The Cardinal Core Curriculum Committee will not accept any appeal for such consideration.

**Transfer Students and Cardinal Core**

**Kentucky General Education Transfer Policy**

Students who transfer between Kentucky’s public institutions of higher education may qualify for certification of coursework meeting the Kentucky General Education Transfer Policy.

**General Education Category Certified**

Students who have completed some but not all of the five categories in the core component will be “category certified” for purposes of transfer. Individuals in this situation must fulfill all of the remaining general education requirements of the receiving institution that have not been satisfied through category certification. Students will still be required to complete 6 hours in courses designated diversity (D), with 3 hours in U.S. diversity (D1) and 3 hours in global diversity (D2).

**Statewide General Education Core Categories**

**General Education Core Certified**

Students who have completed all of the categories – the core component – with a minimum of 30 unduplicated credit hours will be “core certified” for purposes of transfer. A student admitted to the university as core certified is considered to have met all general education requirements of the institution with the exception of the Diversity competency. Students will still be required to complete 6 hours in courses designated diversity (D), with 3 hours in U.S. diversity (D1) and 3 hours in global diversity (D2).

**General Education Fully Certified**

Students who have completed a general education program, with a minimum of 30 unduplicated semester credit hours or the equivalent (may include an approved SACS justification for fewer hours) which includes the core component and all additional institutional-specific general education courses, will be “General Education Fully Certified” for purposes of transfer. If the receiving institution’s general education program requires a sum of hours that is less than the total the student has taken at the sending institution, the excess hours will be accepted for transfer by the receiving institution and evaluated for application toward degree requirements. There may be graduation requirements beyond general education requirements that a student will need to complete (e.g., senior year capstone experiences).

**AA/AS Credit for General Education**

Students who graduate from Kentucky public institutions with AA or AS degrees will be deemed to be General Education Fully Certified. Other students who present the transcript for an AA (Associate of Arts) and/or an AS (Associate of Science) degree from a regionally-accredited institution (not included in the Kentucky Public Transfer Policy) will be considered for General Education Core Certification. Transcripts for such consideration must show completion of at least one transferable course in each of the Cardinal Core content areas at the University of Louisville: Written Communication, Oral Communication, Quantitative Reasoning, Arts and Humanities, Social and Behavioral Sciences (including Historical Perspective), and Natural Sciences.

**General Education Requirements for Second-degree Students**

For students already holding a baccalaureate degree but in residence to complete a second baccalaureate, the Cardinal Core requirements shall be considered fulfilled by the first baccalaureate degree.

**Cardinal Core Assessment**

Assessment of student learning outcomes is a national expectation in higher education and the expectations are calls for increased accountability. The Cardinal Core Curriculum Committee (CCCC) will conduct a systematic assessment of the Cardinal Core program for achievement of the student learning outcomes. In particular, the university-wide general education assessment program evaluates student performance in the key intellectual skills of the Cardinal Core program: critical thinking, quantitative reasoning, effective communication, and the understanding of historical, social, and cultural diversity. This process evaluates the effectiveness of the general education program and recommends changes for its improvement, as required by the Southern Association of Colleges and Schools (SACS) accreditation principles.

**Graduation and Degree Requirements**

**University Policies: Graduation and Degree Requirements**

The conferring of degrees by the University of Louisville is conditional upon completion of all requirements in the opinion of the unit faculty and dean, regardless of the students’ participation in commencement.

Students are strongly urged to run preliminary degree audits on a regular basis so that possible deficiencies in degree requirements can be identified early.

**Bachelor’s Degree Requirements**

The baccalaureate degree (arts, fine arts, and science) is the undergraduate degree offered by the university. It is awarded to students who have completed both university-wide requirements and the requirements of the selected degree program. The following university-wide requirements apply to all baccalaureate degrees. The student must:

- Complete an online degree application by the specified date at the beginning of the semester of graduation.
• Complete an application for and be accepted for admission into a major program.
• Satisfy all Cardinal Core requirements.
• Complete all required courses and program requirements listed in the degree program section of this catalog.
• Have a cumulative university GPA of at least 2.00, or higher if specified by the program.
• Have a cumulative program GPA of at least 2.00, or higher if specified by the program.
• Complete a minimum of 120 hours applicable to the program, or more if required by the program.
• Complete at least 60 hours at an accredited four-year institution.
• Complete at least 25% of the total credit hours required for the degree in residence at the University of Louisville.
• Complete 30 of the last 36 hours in residence at the University of Louisville.
• Have neither missing nor outstanding I or X grades.
• Satisfy any additional requirements specified by the major program and unit.
• Be formally recommended for the baccalaureate degree by the unit faculty and dean and approved by the Board of Trustees.

Second Baccalaureates
To be awarded a second bachelor’s degree, students must earn a minimum of thirty additional semester hours in the program. For students pursuing two degrees simultaneously, these thirty hours will be added to the minimum total of semester hours needed for the degree requiring the least number of hours.

Minors
Students who want to take a minor must apply for admission to the minor program after acceptance into a major program. The course work requirements for a minor are prescribed by a department or unit and consist of at least 18 semester hours. Most minor programs are open to students from all units.

Satisfactory completion of course work required for a minor will be certified as completion of the minor, and will be shown on the student’s transcript only if the student’s application has been accepted by the department or program offering the minor.

Unit-Specific Policies
In addition to the university-wide policies regarding Graduation and Degree Requirements, students may be subject to the unit-specific requirements listed below.

College of Arts and Sciences
Minimum Hours
Each student must earn a minimum of 121 semester hours of credit (unless a higher minimum is specified in a program of study). At least 50 of the total semester hours, whether required or elective, must be earned in courses numbered 300 or higher. A student who earns duplicate credit for courses will be required to complete more hours.

Maximum Hours in Major
No more than 40 hours of courses that count in the major field may be applied toward graduation by candidates for the BA degree. No more than 60 hours in the major field may be applied toward graduation by candidates for the BS degree. No more than 80 hours in Fine Art (courses designated ART and ARTH) may be applied toward the BFA in Fine Arts.

Departmental Learning Outcomes Assessment
Completion of a baccalaureate degree also requires students to submit work to the department of the major for the department’s Learning Outcomes Measurement. Details about the specific requirements and deadlines of an individual department are available in the department office. Students are advised to make themselves aware of these requirements as early as possible in their academic careers.

Requirements for Minors
The course work requirements for a minor consist of 18-23 semester hours. A maximum of 3 hours of pass-fail work may be applied. Students may elect a major and a minor in the same department only if there is more than one degree program in that department and if the major and minor are in two different programs of the department. Students who elect a minor and a major in the same department are cautioned that no more than 40 hours of courses with the same departmental designation that count in the major may be applied toward the 121 hours minimum for a BA degree and no more than 60 hours with the same departmental designation may be applied toward the 121 hours minimum for a BS degree. Students also are cautioned that completion of the major, which is required for all degrees, and completion of the minor, which is optional, may require the student to complete more than the 121 semester hours minimum required for a baccalaureate degree. Courses required for the minor may be used to fulfill other degree requirements.

College of Business
Minimum Hours
Required hours exclude non-academic credits (all remedial course work including Reading, English, and Math courses numbered 100 or below). Students pursuing a second bachelor’s degree must be admitted to the College of Business in degree status, must earn a minimum of 30 hours beyond their last degree and fulfill all program and GPA requirements of the second degree.

Upper-Level Hours
At least 48 of the total semester hours, whether required or elective, must be earned in courses numbered 300 or higher. Note that the number of the course, not the student’s classification, determines whether or not a course is senior-level.

College of Education & Human Development
The baccalaureate degrees offered by the College of Education and Human Development include minimum requirements for completion and graduation.

Organizational Leadership and Learning
The following requirements apply to the BS degree in Organizational Leadership and Learning:
• At least 50 of the hours for the degree must be upper-level hours (300 level and above).
• 2.25 overall grade point average and 2.50 grade point average in the major.
• University policy mandating that 30 of the last 36 hours must be taken in residence does not apply to distance education students or active-duty military personnel in the OLL program.
• A grade of C or better is required in all professional education courses. C-minus is not acceptable.

• Students admitted to the OLL Healthcare Leadership track must maintain a 2.7 overall grade point average as well as a 3.3 grade point average in the major. Students are required to earn a B+ or better in each major course. For additional policies regarding this Competency-Based Education program: Organizational Leadership and Learning with a Track in Healthcare Leadership (BS).

Health and Human Performance
Students must complete at least 45 of the credit hours for the degree at the University of Louisville with a minimum cumulative university grade point average of 2.25. Students must have completed HSS 184 and HSS 320 with a grade of B-minus or higher and HSS 202 with a grade of C or higher.

Sport Administration
Students must complete at least 45 of the credit hours for the degree at the University of Louisville with a minimum cumulative university grade point average of 2.50. Students must have completed SPAD 281 and SPAD 284 with a grade of C or better (C-minus will not be accepted). Students must not have earned any grades of D in SPAD courses required for the major.

The minimum requirements for completion of the degree are:

• A total of 123 hours with at least 50 upper-level hours (300-level and above)
• 2.25 overall grade point average

Early Elementary Education
The following degree requirements apply to the BS degree in Early Elementary Education:

• A minimum total of 125 hours with at least 50 upper-level hours (300-level and above)
• 2.75 overall grade point average
• 3.0 grade point average in program education courses
• Satisfactory work sample

Middle/Secondary Education
The following degree requirements apply to the BS degree in Middle/Secondary Education:

• A minimum total of 125 hours with at least 50 upper-level hours (300-level and above)
• 2.50 grade point average in content area.
• 3.0 grade point average in program education courses.
• Satisfactory teacher performance assessment (TPA)

Please note that students must be formally admitted to the teacher education program for Early Elementary or Middle/Secondary Education. Please contact Education Advising and Student Services for further information.

Requirements for Minors

A grade point average of 2.50 is required to earn the Exercise Science minor. A grade point average of 2.25 is required to earn the Sport Administration minor. No grades of D are allowed in any coursework used to complete any HSS minor.

Application for Teacher Certification
Students seeking teacher certification upon completion of degree and/or program requirements, must apply through the College of Education Advising and Student Services office to the Kentucky Professional Standards Board to receive the teaching certificate. Consult Education Advising and Student Services office for information.

Kent School of Social Work
Kent students participating in commencement will receive a generic letter stating that they have met the requirements of the BSW degree. This letter is an official letter that can be given to employers, for possible employment benefits. Students not attending commencement will NOT receive such a letter. Official degrees take up to six weeks to show on student transcripts. No personal letters for licensure or employment purposes can be given to students. These letters can also not be given before commencement due to specific university restrictions. Students should plan licensure exams or employment dates to accommodate this six-week delay after commencement to get an official transcript showing a degree.

School of Music
Minimum Hours and Point Standing
To be recommended for a degree or minor in Music, the student must have completed the prescribed number of hours in the courses taken and must have a 2.5 grade point average.

School of Nursing
A candidate for the Bachelor of Science in Nursing in the traditional BSN program must have satisfactory completion of the required BSN courses with a minimum undergraduate cumulative and program grade point average of 2.5; a minimum university GPA of 2.0 in all coursework is required. A minimum letter grade of C is required in all nursing courses (NURS).

A candidate for the Bachelor of Science in Nursing in the RN-BSN program must have satisfactory completion of the required BSN courses and earned a minimum university and program grade point average of 2.0. A minimum letter grade of C is required in all nursing courses (NURS).

J.B. Speed School of Engineering
Graduation and Degree Requirements
Degree requirements for all BS degrees granted by the J.B. Speed School of Engineering will be based upon the course requirements that are in effect at the time of admission to the School of Engineering. If an applicant has been admitted several times, the degree requirements in effect at the most recent time of admission will apply.

The following graduation and degree requirements apply to all BS engineering degrees. The student must:
• Have credit for each of the three cooperative education work terms
• Have a cumulative university GPA of at least 2.25 and have a cumulative program GPA of at least 2.25

Second Bachelor’s Degree
In addition to the requirements set by the university, satisfaction of the requirements for co-op must have approval of both departments.

Graduation with Academic Honors

University Policies: Graduation with Academic Honors

Baccalaureate degree students who have earned a minimum of 60 hours of degree credit in residence at the University of Louisville will be eligible for consideration to graduate with honors. Students who have re-entered the university under the fresh-start policy must have earned at least 60 credit hours since their return to be considered for academic honors.

Commencement programs will list eligible students as “Candidates for Honors” based on their having earned both undergraduate and program grade point averages of 3.5 or higher prior to the semester preceding graduation. Final determination of a student’s eligibility to graduate with academic honors will be based on the student’s standing upon completion of the degree. The name of the honor is decided by the unit.

Minimum criteria for honors are as follows:

• Cum Laude or Honors: 3.50 undergraduate and program grade point averages
• Magna Cum Laude or High Honors: 3.75 undergraduate and program grade point averages
• Summa Cum Laude or Highest Honors: 3.90 undergraduate and program grade point averages.

Requirements for graduation with academic honors are determined by each academic unit. In addition to the minimum criteria, units may specify additional requirements for grade point averages and additional work such as honors projects or honors theses. Students should consult their advisor concerning eligibility and requirements for graduation with academic honors. The dean’s office will make any final decisions concerning eligibility.

Students who were admitted to the University Honors program may be eligible to graduate as an Honors Scholar. Students who complete the necessary coursework with the required GPA will earn the designation of University Honors Scholar on both their transcript and diploma. Students who earn this distinction are awarded a medal and recognized at an awards ceremony prior to university commencement.

Unit-Specific Policies

In addition to the university-wide policies regarding Graduation with Academic Honors, students may be subject to the unit-specific requirements listed below.

College of Arts & Sciences

In determining eligibility for graduation with College Honors, the College takes into consideration not only the university cumulative grade point average (which must be at least 3.5), but also an “expanded cumulative grade point average” which is calculated only for the purpose of determining eligibility for graduation with College Honors.

The “expanded grade point average” is calculated based on grades earned in all college-level work. In the case of repeated courses, both the original grade and credit hours and the replacement grade and credit hours will be included in the calculation. Similarly, grades and credit hours excluded from the university grade point average through application of the academic bankruptcy provision and the Fresh Start program will be included in determining a student’s expanded grade point average. In the case of work done at other institutions, all grades and credit hours in all degree-applicable courses will be included in determining a student’s expanded grade point average.

Students should consult their advisor with any questions concerning eligibility and requirements for graduation with College Honors.

The minimum grade point average requirements for graduation with College Honors are:

Cum Laude: 3.50
Magna Cum Laude: 3.75 with no College honors thesis; 3.65 with College honors thesis
Summa Cum Laude: 3.75 with College honors thesis

All senior honors theses must be approved by the College of Arts & Sciences’ Honors Thesis Committee.

Further information about the requirements to graduate magna cum laude or summa cum laude—including eligibility, deadlines for the proposal, the completed project, and the defense of the project—can be found on the University Honors Program website (http://louisville.edu/honors).

College of Business

Students pursuing a double major must have the appropriate minimum GPAs in both majors to receive their degree with honors, high honors, or highest honors.

Alternatively, students may graduate with Highest Honors with a thesis project and the following GPA requirements: 1) a minimum of 3.75 University and program GPA at the beginning of the semester in which the student plans to graduate, and 2) the 3.75 minimum university and program GPA must be maintained through the final semester prior to graduation. With this path, students must write a thesis in their major, according to the following procedures:
1. Prior to the beginning of the student’s final semester, he or she must contact the discipline Department Chair and initiate a request to be a candidate for graduation with highest honors.

2. The Chair will establish an Honors Committee of three faculty members. In consultation with the Honors Committee, the Chair will prepare a schedule of activities to help the candidate complete the thesis in a timely manner.

3. The Honors Committee will consult with the candidate and agree on a topic. The candidate will prepare the thesis according to the general requirements set up by the Honors Committee.

4. The candidate will submit the final draft of the thesis by the deadline set out in the initial schedule of activities. The Honors Committee will review the thesis on the basis of grammatical accuracy, substantive contribution, and response to the Committee’s input. If the Committee chooses, it may conduct an oral examination of the candidate.

5. After reviewing the thesis, the Honors Committee will forward a positive or negative recommendation and a copy of the thesis to the Chair. To be acceptable, the thesis must be approved by all three members of the Honors Committee with the concurrence of the Chair. A candidate may appeal a negative decision to the COB Undergraduate Studies Committee. The thesis, along with the recommendations of the Honors Committee and Chair, will be forwarded to the Associate Dean for Undergraduate Programs no less than three weeks before the end of the semester in which the candidate is to graduate. It will be retained there in either a public or confidential file, as designated by the candidate. The discipline advisor will also be notified of the decision as the responsible party for notifying the Registrar’s Office.

**Honors Scholar in Business**

To graduate as an Honors Scholar in Business, a COB student must complete at least 24 hours of honors courses with at least 18 hours in the COB; at least 12 hours at the 300 level or above; and at least two upper-level seminar courses (or one seminar plus a senior thesis), at least one of which must be non-business. The student’s final university GPA must be 3.5 or higher.

**College of Education & Human Development**

In order to be eligible to receive a degree with the distinction of Cum Laude, Magna Cum Laude or Summa Cum Laude, a student must earn:

- **Cum Laude**: 3.50 university and program GPA
- **Magna Cum Laude**: 3.75 university and program GPA
- **Summa Cum Laude**: 3.90 university and program GPA and Honors project as outlined below.

In order for a student to be eligible to receive a degree with the distinction of Summa Cum Laude, the student must have the recommendation of the major program faculty indicating an outstanding level of competence in the various phases of field experience as well as in all academic work.

“Program GPA” is defined as follows:

- HSS degrees: all degree-applicable HSS and SPAD courses
- Teaching and Learning degrees: all degree-applicable EDTP and EDSP courses

Only credit earned at the University of Louisville will be used in calculating grade point averages used in decisions regarding honors.

**Guidelines for Graduating Summa Cum Laude**

Students intending to graduate with the distinction of Summa Cum Laude must submit a proposal and present a final paper or project based on the guidelines developed by the College of Education and Human Development Honors and Scholarship Committee. The proposal must be approved by the Committee according to the following schedule:

- **May degree applicant**: Prior to September 30
- **August degree applicant**: Prior to October 15
- **December degree applicant**: Prior to March 30

Detailed guidelines and forms are available at louisville.edu/education/advising/graduate-with-honors.

Each student must select a faculty sponsor for assistance and guidance in preparing the proposal and the final project/paper. The final project/paper must be approved by the Honors and Scholarship Committee according to the following schedule:

- **May degree applicant**: Prior to March 31
- **August degree applicant**: Prior to April 30
- **December degree applicant**: Prior to November 30

**Speed School of Engineering**

In order to be eligible to graduate with Honors, High Honors, or Highest Honors, students must have completed at least one-half of the credit hours required in their undergraduate degree program while enrolled in the J.B. Speed School of Engineering.

**Residency Requirements**

Students earning baccalaureate degrees are required to complete at least 25 percent of the total credit hours required for the degree (including Cardinal Core credit hours) at the University of Louisville. Students earning baccalaureate degrees are also required to complete 30 of their last 36 semester hours at the University of Louisville.

Students earning associate degrees are required to complete a minimum of 15 of their last 18 semester hours at the University of Louisville.
Additionally, transfer students must take a minimum of 12 credit hours in their major at the University of Louisville.

Student Records, Rights and Responsibilities

Information on policies related to student records, student rights and student responsibilities at the University of Louisville can be found on this page or by clicking on the following links to topic-specific pages:

- Academic Grievances (p. 87)
- Classification of Students (p. 87)
- Code of Student Conduct (p. 87)
- Code of Student Rights and Responsibilities (p. 88)
- Religious Days and Observances (p. 88)
- Student Records (p. 89)

These policies are effective August 20, 2018 (Fall 2018 semester). Students enrolled in a term before this effective date should consult with an advisor in their enrollment unit (http://louisville.edu/advising/centers) if they feel that they are disadvantaged by any change from 2017-18 policies.

Previous catalogs are available via the archive page of this catalog (p. 791). Reference copies of the university catalog are maintained by University Libraries, the university registrar, the Student Government Association (SGA) Office, the student grievance officer, and the Dean of Students/Vice Provost for Student Affairs.

Student Rights

Academic Grievances

The academic grievance procedure is designed to provide fair means of dealing with student complaints regarding a specific action or decision made by the faculty or a faculty member:

“Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance”

(The Redbook, Section 6.8.1).

Detailed information on how to submit and pursue a grievance can be found on the Office of the Provost website: louisville.edu/provost/redbook.

Classification of Students

Undergraduate students are admitted to an undergraduate enrollment unit and classified as follows:

Full-time students: students who are registered for 12 or more semester hours in a regular school session.

Part-time students: students who are registered for fewer than 12 semester hours in a regular school session.

Regular students: students who have satisfied the admissions requirements for the academic unit in which they are enrolled.

Special students: students who do not satisfy the admissions requirements for the academic unit in which they are enrolled, but who are admitted by special consent.

Visiting students: students regularly enrolled in other institutions who desire to register in one of the academic units of the University for one semester. Visiting students must be in good standing in their regular college or university.

Post-baccalaureate: students holding baccalaureate degrees and taking further undergraduate work.

Auditors: students enrolled in a class or classes on a noncredit basis.

Freshmen: students who have fewer than 30 semester hours of credit.

Sophomores: students who have 30 or more, but fewer than 60 semester hours of credit.

Juniors: students who have 60 or more, but fewer than 90 semester hours of credit.

Seniors: students who have 90 or more semester hours of credit but have not received baccalaureate degrees.

Student Rights and Responsibilities

Code of Student Conduct

The University’s Code of Student Conduct is the University’s policy regarding non-academic discipline of students and student organizations. Academic discipline of students is not covered by the Code, but rather falls within the authority of the individual academic units of the University.

Students are responsible for reading and abiding by the Code of Student Conduct.

The Code of Student Conduct can be found on the Dean of Students website: louisville.edu/dos/students/codeofconduct.

Code of Student Rights and Responsibilities

The Code of Student Rights and Responsibilities is set forth in writing in order to give students general notice of certain of their rights and responsibilities at the University of Louisville. Further rights and responsibilities are set forth in other University rules and policies, including the Code of Student Conduct, Residence Hall contracts, and academic unit bulletins. It is the students’ responsibility to be aware of all University rules and policies; students should check with the Office for Student Life and with their academic units if they have any questions about the purposes or intent of these policies.

The Code of Student Rights and Responsibilities contains statements regarding the following:
• Admission and Financial Aid
• Class Rights and Responsibilities
• Academic Dishonesty
• Discipline Procedures for Academic Dishonesty
• Campus Expressions
• The Student Press
• University Facilities
• Use of University Name and Insignia
• Campus Residence Facilities
• Student Records
• Campus Organizations
• Promulgation of University Rules Affecting Students

The Code of Student Rights and Responsibilities can be found on the Dean of Students website: louisville.edu/dos/students/studentrightsandresponsibilities.

Work-Restricted Religious Observances/Holy Days
Federal law and university policy prohibit discrimination on the basis of religious belief. It is the policy of the University of Louisville to accommodate students, faculty, and staff who observe religious work-restricted holy days.

Students who observe work-restricted religious holy days must be allowed to do so without jeopardizing their academic standing in any course. Faculty are obliged to accommodate students’ request(s) for adjustments in coursework on the grounds of religious observance, provided that the student(s) make such request(s) in writing during the first two (2) weeks of the term.

Deans and department chairs must investigate and resolve student complaints arising from alleged faculty failure to make reasonable accommodations under these guidelines.

Faculty and staff supervisors are directed to accommodate requests for absence for work-restricted religious holy days, unless it would cause an undue hardship. Further, whether the holy days are work-restricted or not, supervisors of faculty and staff should be sensitive to requests for accommodations.

Definition of Religious Observance/Work-restricted Holy Day
A recognized denominational sacred or holy day that is observed by persons or groups who are required—through a set or system of religious beliefs, laws/doctrines, tenets, canons or theology—to restrict or limit work and/or physical or mental activity directed toward the production or accomplishment of something; toil; labor.

This definition may include academic endeavors (e.g., examinations, classroom activities and research, or out-of-classroom learning experiences).

There is a distinction between religious holy days, sectarian holidays, and ethnic holidays and festivals which are routinely celebrated in the United States of America—e.g., Christmas, Thanksgiving, New Year’s Day—and religious work-restricted holy days which are based upon religious tenets, laws, and/or doctrine—e.g., Yom Kippur, portions of Ramadan, or a work-restricted Sabbath.

Individuals who observe and/or follow these religious work-restricted holy days are not permitted to engage in day-to-day occupations, work, or attend school, including taking examinations or performing other routine commitments. Observances/practices vary from culture to culture within and across denominations.

While there are no work-restricted holy days within the Christian faith by tenet, Easter and Christmas often are considered to be non-work days by custom.

Student Records
Privacy of Student Records (FERPA)
The University of Louisville hereby notifies students concerning the Family Educational Rights and Privacy Act of 1974. This act, with which the institution intends to comply fully, was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate or misleading information. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office, Department of Education, concerning alleged failures by the institution to comply with the act.

The University has adopted a policy which explains the procedures to be used by the university for compliance with the provisions of the act and the regulations adopted pursuant thereto. Copies of the policy and other FERPA information can be obtained online at louisville.edu/library/archives/stupriv. Questions concerning the Family Educational Rights and Privacy Act may be referred to the Director, University Archives and Records Center, Ekstrom Library.

Student Information System
The Student Information System is the electronic system that is used to register students and record their grades. It is from this system that transcripts are produced for students completing coursework at the university beginning with the 1982 fall semester.

Change of Address
Students requiring address changes during and between terms can make the adjustments via the web through Ulink. Under the heading “Personal Information”, select “home and mailing addresses”, then select “edit.”

Students may also go directly to the registrar’s office, room 31, Houchens building, and submit their new address in person. Address changes will also be accepted by calling the registrar’s office at (502) 852–6522. Verification of student personal identification number will be required.

Email Notification
The university will use the university email system to remind students of some academic and financial deadlines as well as notification of canceled courses. Students are expected to check campus email regularly and are responsible for the information conveyed through university email.
Academic Grievances

The academic grievance procedure is designed to provide fair means of dealing with student complaints regarding a specific action or decision made by the faculty or a faculty member:

“Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance.”

The Redbook, Section 6.8.1

Detailed information on how to submit and pursue a grievance can be found on the Dean of Students website (http://louisville.edu/dos/help/studentgrievance).

Classification of Students

Undergraduate students are admitted to an undergraduate enrollment unit and classified as follows:

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- **Seniors**: students who have 90 or more semester hours of credit but have not received baccalaureate degrees.

Code of Student Conduct

The University's Code of Student Conduct ("The Code") is the University's policy regarding non-academic discipline of students and student organizations. Academic dishonesty is not covered by this Code, but rather falls within the authority of the individual academic units of the University. Students have the responsibility to follow all regulations outlined in this policy.

The primary purpose for the Code in the University setting is to respond to incidents of non-academic misconduct in a way that is developmentally sound and which creates an environment where all members of the academic community can live, work, and learn together. The Code is designed to provide educational guidance to those choosing to develop into good citizens and, at the same time, to respond appropriately to behavior which may be inconsistent with university policies.

Criminal and civil codes are undesirable models for student conduct codes. Unlike society, the University of Louisville is a voluntary association of scholars who demand and deserve a positive and special learning environment, as well as an approach for enforcing the community’s standards. The University of Louisville is a community dedicated to the principles of free expression in which diverse views are encouraged and embraced. Opinions that may be unpopular and/or contrary to the University’s values and objectives, but do not otherwise violate policy, will not be sanctioned.

The University's Code of Student Conduct is set forth in writing in order to give students general notice of non-academic prohibited conduct. The Code should be read broadly and is not designed to define non-academic misconduct in exhaustive terms. The Vice Provost for Student Affairs or designee is the final authority in defining and interpreting the Code of
The Code of Student Rights and Responsibilities is set forth in writing in order to provide students with general notice of their rights and responsibilities at the University of Louisville. Further rights and responsibilities are set forth in other University rules and policies, including the Code of Student Conduct, Student Handbook, Residence Hall contracts, graduate and undergraduate catalog, and academic unit websites. It is a student's responsibility to be aware of all University rules and policies. Students should check with the Dean of Students Office and with their academic units if they have any questions about the purposes or intent of these policies.

The Code of Student Rights and Responsibilities can be found at louisville.edu/dos/students/studentrightsandresponsibilities.

Student Handbook
Other policies and information for students can be found in the Student Handbook, online at louisville.edu/dos/students/studentpoliciesandprocedures/student-handbook.

Student Advocacy and Support
The Student Advocate helps students navigate educational, personal, and other campus obstacles that impact successful completion of their academic goals. The Student Advocate links students with appropriate university and community resources, and collaborates with faculty and staff in the best interest of the students and follows through to bring efficient closure to student concerns.

There are times when students may experience a number of different issues that impact their ability to be academically successful such as illness, death of an immediate family member, accident, critical issues such as sexual assault, harassment, domestic violence or other emergency situations. The Student Advocate works with students and their families to resolve the issue by identifying options and strategies and offering information and guidance. During difficult times, students should be empowered with the resources to make informed decisions and take a proactive role in the problem resolution process.

The Student Advocate is located in the Dean of Students Office, SAC W301. Please call (502) 852-5787 to schedule an appointment with the Student Advocate.

Student Grievance Officer
The Student Grievance Officer is responsible for informing students of their rights and obligations under the University grievance procedure. The Student Grievance Officer will seek to resolve informally as many grievances as possible.

For assistance, please contact Dr. Joy Hart at joy.hart@louisville.edu or call (502) 852-6293.

Religious Days and Observances

Work-Restricted Religious Observances/Holy Days
Federal law and university policy prohibit discrimination on the basis of religious belief. It is the policy of the University of Louisville to accommodate students, faculty, and staff who observe religious work-restricted holy days.

Students who observe work-restricted religious holy days must be allowed to do so without jeopardizing their academic standing in any course. Faculty are obliged to accommodate students’ request(s) for adjustments in coursework on the grounds of religious observance, provided that the student(s) make such request(s) in writing during the first two (2) weeks of the term.

Deans and department chairs must investigate and resolve student complaints arising from alleged faculty failure to make reasonable accommodations under these guidelines.

Faculty and staff supervisors are directed to accommodate requests for absence for work-restricted religious holy days, unless it would cause an undue hardship. Further, whether the holy days are work-restricted or not, supervisors of faculty and staff should be sensitive to requests for accommodations.

Definition of Religious Observance/Work-restricted Holy Day
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There is a distinction between religious holy days, sectarian holidays, and ethnic holidays and festivals which are routinely celebrated in the United States of America—e.g., Christmas, Thanksgiving, New Year’s Day—and religious work-restricted holy days which are based upon religious tenets, laws, and/or doctrine—e.g., Yom Kippur, portions of Ramadan, or a work-restricted Sabbath.

Individuals who observe and/or follow these religious work-restricted holy days are not permitted to engage in day-to-day occupations, work, or attend school, including taking examinations or performing other routine commitments. Observances/practices vary from culture to culture within and across denominations.

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### Student Records

### Privacy of Student Records (FERPA)

The University of Louisville hereby notifies students concerning the Family Educational Rights and Privacy Act (FERPA) of 1974. This act, with which the institution intends to comply fully, was designed to protect the privacy of educational records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading information. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office, Department of Education, concerning alleged failures by the institution to comply with the act.

The University has adopted a policy which explains the procedures to be used by the university for compliance with the provisions of the act and the regulations adopted pursuant thereto. Copies of the policy and other FERPA information can be obtained online at library.louisville.edu/archives/ferpa.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Director, University Archives and Records Center, Ekstrom Library.

### Student Information System

The Student Information System is the electronic system that is used to register students and record their grades. It is from this system that transcripts are produced for students completing coursework at the university beginning with the 1982 fall semester.
The University of Louisville has nine colleges and schools that offer degree programs at the undergraduate level:

- College of Arts and Sciences (p. 90)
- College of Business (p. 95)
- College of Education and Human Development (p. 98)
- J.B. Speed School of Engineering (p. 101)
- Kent School of Social Work (p. 105)
- School of Dentistry (p. 107)
- School of Music (p. 109)
- School of Nursing (p. 114)
- School of Public Health and Information Sciences (p. 117)

The Schools of Interdisciplinary and Graduate Studies, Law, and Medicine offer credentials only at the graduate and/or professional levels.

**College of Arts and Sciences**

Gardiner Hall, 2nd Floor
University of Louisville
Louisville, KY 40292

Phone: (502) 852-6490
Email: asdean@louisville.edu

Web: louisville.edu/artsandsciences

**About the College**

A college of arts and sciences is central to the fulfillment of the purposes of higher education. Undergraduate study in a liberal arts college is designed to develop the whole person through the free inquiry that trains the mind for critical analysis and aesthetic appreciation. A liberal education begins with introductory studies in the natural sciences, social sciences, and humanities; its end is the development of the intellect to its full potential. Liberal education is a lifelong endeavor, and the goal of a college of arts and sciences is to ensure that the opportunities exist for a substantial beginning to this process.

The College of Arts and Sciences (http://louisville.edu/a-s) of the University of Louisville is founded on these traditional principles, interwoven with the special role of an urban university. As the college which offers the most comprehensive undergraduate programs and selected graduate programs, the College of Arts and Sciences has an integral role in the fulfillment of the university’s mission by integrating urban-related courses within the foundation of a liberal education.

The theoretical and practical knowledge in the College’s baccalaureate programs is generally regarded as excellent preparation for many careers that do not require professional or advanced degrees and is the academic foundation for most students who enter master’s and doctoral graduate programs. The College provides the liberal arts academic base for students who later attend the professional schools. In addition to the undergraduate curriculum, most departments in the College offer programs leading to the master’s degree and twelve departments offer doctoral degrees.

A university is expected to advance the theories and application of knowledge. This expectation is fulfilled primarily by the creative research of its faculty. This creativity is related directly to the role of teacher, for it ensures that the College’s students learn from enthusiastic and excellent faculty members who advocate the principle of lifelong inquiry.

The College’s allegiance to the traditions of a liberal education does not end with the preservation of its history or its traditional programs. The vitality of the College is found in its continuing re-examination of itself, and in its willingness to change when change would further the welfare of its students, its faculty, and its community.

**Structure**

The College of Arts and Sciences has a division of humanities, a division of natural sciences, and a division of social sciences. These divisions represent the disciplines which collectively make up the liberal arts and sciences. Each division contains departments which offer programs in specific disciplines. In addition to these departments, the College has a number of interdisciplinary programs which involve faculty and coursework from several disciplines.
**Departments of the College of Arts and Sciences**

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<td><em>Women’s and Gender Studies</em> (<a href="http://louisville.edu/wgs">http://louisville.edu/wgs</a>)</td>
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</tbody>
</table>

* Interdisciplinary discipline or program, which may cross-count in other divisions.

**Arts & Sciences Administration**

The complete and up-to-date list of Arts & Sciences leadership is located on the Arts & Sciences website at louisville.edu/artsandsciences/about/deans-staff.

**Faculty and Departmental Information**

The complete and up-to-date list of departments (http://louisville.edu/artsandsciences/about/structure-and-divisions) can be found on the Arts & Sciences website.

**Advising Services**

Please see the section of the catalog related to Academic Advising. To determine if you have an advising hold, please check your ULink account, under the student services tab, and click on the “holds” link.

**Information for Students**

**Academic Bankruptcy and Forgiveness & Fresh Start**

Academic Bankruptcy and Forgiveness (p. 70) policies allow students who are returning to college after an absence of two or more years to request the adjustment of their records for one or more entire semesters of previous college work, provided certain criteria are met. View information on Academic Bankruptcy and Forgiveness (p. 70) and the Fresh Start (p. 70) policy.

**Student Discipline and Grievance Policies**

It is the student’s responsibility to read the catalog and official announcements, to be informed about his/her own grades, credits, degree requirements, and quality points, and to abide by the regulations of the University and the College.

**Official Notices**

All students must respond to official notices issued by administrative officers and instructors, whether these notices be posted on official bulletin boards or sent through electronic or postal mail. Failure to comply with this regulation may lead to suspension from the College.

**Academic Grievance Procedure**

The College of Arts and Sciences follows the procedures for academic grievance as stated in this catalog and as published in The Redbook, Chapter 6, Article 8 (http://louisville.edu/provost/redbook/chap6.html#ART68). Any student considering filing such a grievance must consult with the Arts and Sciences Advising Center (louisville.edu/artsandsciences/advising/) for advice and information.

**Statement of Academic Discipline**

In accordance with The Code of Student Rights and Responsibilities (louisville.edu/dos/students/code-of-student-conduct.html), academic dishonesty is prohibited at the University of Louisville. Both faculty and students thought it important to express clearly, in advance, the standards to which the College adheres. The Statement of Academic Discipline printed below is the result of their effort and serves as the College’s official statement.

Questions which do arise are reviewed by a joint student-faculty committee, which advises the student and faculty concerned. The student’s rights to review and appeal are scrupulously observed, and minutes of all meetings are confidential.

I. Introduction

As members of the academic community, both students and faculty are expected to recognize and to uphold standards of intellectual integrity. The College assumes as a minimum standard of conduct in academic matters that the student is honest; credit for courses is given
and received on the assumption and condition that all work submitted represents the student’s own efforts.

Unfortunately, cheating and plagiarism do occur. The pressure for grades is often great, and opportunities for dishonesty exist. Nevertheless, both the ideals of scholarship and the need for practices which are fair to all students demand that all dishonest work be rejected as a basis for academic credit. The definitions and guidelines given below are intended to clarify the standards by which academic work is to be measured.

II. Definitions
Cheating on examinations consists of any of the following: 1) borrowing someone’s answers; 2) providing answers to someone; 3) using unauthorized materials during the examinations.

Except when otherwise explicitly stated by the instructor, examination questions shall become public property after they have been given.

Plagiarism, in submitting individual work for academic evaluation, means simply to borrow someone’s ideas without citing the source, and to use them as one’s own. It is a particular type of cheating. Plagiarism in this sense is not limited to the use of direct quotations without citation; a paraphrase is indebted to the author’s ideas just as a direct quotation is. Nor is plagiarism limited to the use of published materials; borrowing from the written or oral work of others without citation is equally dishonest. On the other hand, in every area of learning there is a body of knowledge which belongs to the public domain. Guidance and experience may be necessary in order to distinguish where the requirement to cite a source no longer applies. The instructor or perhaps a style manual may be helpful in resolving questions about what should be cited.

III. Guidelines for Instructors
Instructors have at least two roles to play in maintaining proper standards of academic conduct: to assist their students in recognizing the way in which general standards apply in the context of a particular course or discipline, and to take practical steps to prevent cheating and detect it when it occurs. Specific guidelines should be followed:

• That instructors take the time to inform students of the standards of conduct expected of them with regard to assignments and examinations.
• That practical measures be taken to minimize opportunities for dishonesty; e.g., adequate proctoring, the use of alternate forms of an examination if seating is crowded.
• The practice of giving identical examinations to different classes, whether separated in time by ten minutes or by a semester, invites cheating. When there are good reasons for such repetition, appropriate security precautions should be taken.
• The repeated assignment of the same material for papers or homework invites plagiarism. When assignments are repeated, students should be informed that the unauthorized reliance on earlier papers is forbidden and that the instructor has effective means of detecting same.
• That the instructor specifies with regard to assignments the degree to which students may confer and cooperate in achieving answers.
• The College does not operate on an honor system. If within a particular class an instructor wishes to institute such a system, the students should be clearly informed of their responsibilities.

IV. Guidelines for Students
Recognizing his/her responsibility as a member of the academic community, the student should strive to maintain intrinsically honest academic conduct. The student must seek to avoid any action which would compromise academic integrity. To ensure both the fact and the appearance of proper conduct, the student should follow these basic guidelines:

• During examinations, the student must be careful to do nothing that can be construed as cheating. The student shall follow carefully all directions given by the instructor with regard to taking tests and completing assignments.
• The instructor’s request to keep test questions private shall be honored by the student.
• If the student is aware of practices by the instructor which are conducive to cheating, or of acts of cheating by students, he/she may convey this information either to any member of the student-faculty review committee (see section "V. Procedures") or directly to the instructor.

• Learning the proper methods of documentation and scholarship is also the student’s responsibility. Such knowledge will help avoid committing plagiarism unwittingly.

V. Procedures
As evidence of the seriousness with which the College regards these matters, a student-faculty review committee, the Student Grievance and Academic Discipline Committee, has been established to assist in dealing with violators. The Student Grievance and Academic Discipline Committee also exists to protect the student’s right to a fair and impartial hearing. To ensure its effectiveness, the faculty should view it as the primary channel through which such problems can be resolved. The faculty member who believes a problem of cheating or plagiarism exists should first confront the student or students involved and attempt to resolve the matter. A report of the facts of the case and any decision which was made should be sent by the professor to the Dean or his/her designee. During this initial encounter the faculty member should inform the student of his/her right to appeal an unfavorable decision to the committee. The faculty member has the authority to address and sanction dishonest acts as most appropriate for the course and type of dishonesty that occurred. If it is determined during the reporting process that the student has previously violated this policy, the committee will be convened to review the incident and a statement from the student. The committee will then recommend to the Dean whether the faculty member has issued a fair sanction, further disciplinary action should occur, or if a hearing with the individual student should be held. Subsequent offenses may result in a recommendation to the Dean to suspend or dismiss the individual from the College. All final actions taken by the Dean that result from faculty or committee recommendations shall be entered in the student’s record. This committee is comprised of three students, selected by a nominating committee of the Student Council and/or of the Graduate Network in Arts and Sciences; three faculty members, representing the three divisions of the College, elected by the faculty; and a representative of the Office of the Dean of the College, ex officio.

Written statements shall be made by both parties and made available to both parties and the committee prior to any oral testimony. Any refutations may be made in writing or orally at the hearing. Evidence not submitted in the original written statements will not normally be accepted at the oral hearing.

All evidence in writing before the committee in a case shall be available to the principals. The committee shall hear such cases as come before it and allow the student to speak on his or her own behalf and to present evidence and witnesses. Further, the burden of proof rests with the person making the charge.
The committee may adopt additional principles or procedures as seem appropriate. Such changes, however, should be presented to the faculty for approval.

Any student who believes the processing or final disposition of a charge of academic dishonesty was unfair may initiate a grievance under the Academic Grievance Procedure as outlined in this catalog.

Students should be aware that all recorded instances of Academic Misconduct are retained by the Dean's Office for five years after the time the student separates from the university. Should it be requested, this information will be provided to any graduate or professional school to which the student applies.

**Code of Faculty Responsibilities**

1.0 Applicability
This code shall apply to all faculty members associated with the College of Arts and Sciences of the University of Louisville and to all graduate students and other personnel having teaching or research assignments in that school, hereinafter referred to as the teaching and research personnel.

2.0 Responsibilities
The teaching and research personnel of the College of Arts and Sciences hereby subscribe to the following specific responsibilities:

2.1 General Relations

2.11. The teaching and research personnel shall respect the rights of all members of the University community to pursue their academic and administrative activities, provided these activities do not contravene academic freedom. They retain the right to criticize and seek revision of these activities.

2.12. They shall respect the rights of all members of the University community to free and orderly expression.

2.13. They shall respect the right of any member of the University community to privacy and confidentiality. This right guarantees freedom against violation without consent of assigned physical premises, such as carrels and office space; and also against nonphysical transgressions, such as the unwarranted, improper or false disclosure of a person's political, religious or social views or activities.

2.14. They shall respect the student's right of confidentiality regarding grades.

2.15. They shall respect the rights of all persons of the University community to be free from sexual harassment.*

2.2 Student Relations

2.21. The teaching and research personnel shall uphold the student academic rights as set forth in the Student Bill of Rights adopted by the College on March 1, 1971.

2.22. They shall make known, in writing, as soon as possible during the first week of instruction, their expectations for the course as to assignments, methods of evaluation, and student course participation.

2.23. They shall present the subject matter of a course as published in the catalog, and shall avoid the persistent intrusion of material which has no relation to the subject.

2.24. They shall meet classes as scheduled in accordance with university regulations. Absences caused by illness, emergencies, personal responsibilities, or religious observances are excusable but must be reported to the Department Chair, in advance, if possible. Absences owing to professional obligations such as attendance at scholarly meetings or occasional professional service are excusable absences which nevertheless require prior notification of the Department Chair. In the case of anticipated absences, a qualified substitute, or provisions for additional assignments or alternate activity should be arranged.

2.25. They shall make themselves available for advising students by observing posted office hours, and by allowing students to arrange for appointments at other mutually convenient times.

2.26. They shall learn the academic requirements and various degree programs of the University affecting students whom they advise.

2.27. They shall arrange for appropriate interaction and communication with graduate students in the direction of their theses.

2.28. They shall provide students with an evaluation of their completed work within a reasonable period of time, and allow them access to their own papers, quizzes, and examinations.

2.29. They shall give final examinations, when these are required as part of the evaluation of the student, in accordance with schedules and procedures adopted by the College.

2.30. They shall give due acknowledgement to students who contribute to faculty efforts toward professional or personal advancement.

2.31. They shall respect the student's right to decline participation as a research subject in, or to withdraw from, a particular experiment without prejudice to his/her grade. Alternate experiences or exercises shall be provided to assure the equivalent in educational value to those students who wish not to participate as research subjects. Departments which use human subjects in experiments shall adhere to such code of ethics as are established within their respective professions.

Specifically:

2.31.1. Experimenters shall inform human subjects about the nature of each particular experiment so that they can make an informed choice to participate or not.

2.31.2. Experimenters shall keep the results of an experiment and the identity of the human subjects, who participate in it, separate, and the latter, confidential.

2.32. Teaching and research personnel shall respect the rights of all students to be free from sexual harassment.*

* Sexual harassment is here used as defined by current university policy.
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College of Business

The College of Business was founded in 1953. Our business degree programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Our accountancy program is one of a select group with additional AACSB accreditation. Our equine industry program is the only one in the world housed in an AACSB accredited college. Our Global MBA, offered in partnership with Akademie Wuerth Business School in Germany, is accredited by the Foundation for International Business Administration Accreditation (FIBAA).

Louisville is a great place to study business, because it's where most business in Kentucky happens. Our students, graduates and faculty interact with businesses in Louisville, elsewhere in Kentucky and the United States, as well as in Europe, Asia-Pacific and Central America—all regions where we have graduates. Our Louisville campus includes students from more than 100 countries, almost all 50 states and all 120 Kentucky counties.

Each year we serve approximately 1900 undergraduate students and 300 graduate students with about 80 full-time faculty. We are nationally recognized as a metropolitan research institution and the leading entrepreneurial business college in the region.

We educate future corporate, public and non-profit sector leaders, and entrepreneurs determined to start their own business or help re-invent an existing corporation. Many of our graduates stay in this region and help it prosper; others are spread across the nation and the world.

Our students have access to a great variety of grants, scholarships and financial aid, including scholarships for international travel.

To enhance teaching and learning, our students and faculty also have access to highly sophisticated university-based telecommunications and computer information systems.

The modern, well-furnished College of Business building is located on University of Louisville’s Belknap Campus near the downtown business district. It houses comfortable, technologically advanced classrooms, a large auditorium, a variety of attractive meeting rooms and advising services, including the Ulmer Career Management Center, whose advanced career services are available to College of Business students and alumni for life.

Many of our graduate and undergraduate programs are highly ranked in national and international listings of excellence. See the current rankings at the College of Business website: business.louisville.edu/rankings/

Or, please see our full website louisville.edu/business for a complete listing of our ratings, accreditation, and other noteworthy achievements.

College of Business Administration

The complete and up-to-date organizational chart for the college is located on the Business website at business.louisville.edu/wpprod/images/COBOrgJanuary-2018.pdf.

Faculty and Departmental Information

The complete and up-to-date list of departments and faculty is located on the Business website at business.louisville.edu/faculty-and-staff-directory/.

About the Program

Advising Services

The College of Business employs a staff of professional advisors in the Reinhardt Academic Center (http://louisville.edu/advising/centers/business) to assist students in the development of meaningful educational plans. We take our mission very seriously. We are committed to helping you in the development of a rewarding program of study and a challenging educational plan.
We encourage you to take responsibility for your own learning, and are available to assist you in appropriate course selection, interpreting policies and procedures and monitoring your academic performance and progress toward degree completion. At the end of your coursework, we will conduct a degree check verifying that all program requirements have been completed—and then on to graduation! The academic counselors at the advising center are also available to refer you to appropriate university resources including tutoring, counseling and career services.

**Academic Bankruptcy & Fresh Start**

Academic Bankruptcy and Fresh Start policies allow students to request the adjustment of their records for one or more entire semesters of previous college work, provided certain criteria are met. Students should see the Academic Bankruptcy and the Fresh Start (p. 70) policy.

**Student Academic Rights and Responsibilities**

Every student is expected to be thoroughly familiar with the University's Code of Student Rights and Responsibilities and Student Conduct (p. 85).

Every student is responsible for reading the academic policies in the Undergraduate Catalog and official announcements of the College of Business and for abiding by such regulations. Specifically, every student is responsible for knowing the grade point averages and program requirements needed for graduation. Students are encouraged to see a COB academic advisor to clarify any questions or concerns.

Along with preparing for and attending class, each student has the responsibility to promote high academic standards. Students are expected to cooperate in all classes with faculty members to achieve an optimal learning environment. Inappropriate classroom behavior may result in the student being withdrawn from the course, and potentially assigned academic penalties. Inappropriate classroom behavior will be dealt with in the same manner as academic dishonesty.

**Academic Dishonesty**

The COB has a strong policy of academic discipline for action against students who commit academic dishonesty or conduct themselves inappropriately in the classroom. A proven case of academic dishonesty will normally result in the student being denied admission to or dismissed from the COB.

Academic dishonesty is defined by the Code of Student Conduct. Its definition pertains to but is not limited to cheating, fabrication, falsification, multiple submission, plagiarism, and complicity. It is the student’s responsibility to maintain high standards of ethical conduct, and intellectual integrity and to be familiar with the definition of academic dishonesty.

As evidence of the seriousness with which the COB regards these matters, academic dishonesty allegations are handled in accordance with COB Procedures for Dealing with Academic Dishonesty.

**Procedures for Dealing with Academic Dishonesty**

1. When an academically dishonest event is discovered, it is the faculty member’s responsibility to determine the appropriate course of action, the associated academic penalty, and to inform the student in a timely fashion of the academic dishonesty allegation. It is the faculty member’s responsibility to determine the academic penalty and if an informal or a formal course of action is required. Academic penalties are imposed by the faculty member. The severity of academic penalty is commensurate with the academically dishonest event, and include penalties such as:
   a. Resubmission of an alternative assignment or test
   b. F-grade on the assignment/test
   c. F for the course grade

2. In cases where an academically dishonest event is deemed inadvertent or inconsequential, the faculty member may choose to resolve the academically dishonest event informally with the student. The informal discourse between the faculty member and the student should address the seriousness in how the COB views academic dishonesty, inform the student that it is their responsibility to know what constitutes academic dishonesty, and inform the student that any future academic dishonesty will not be tolerated. Academic penalties in this case should not have a material impact on the student’s final grade in the class.

3. In cases where an academically dishonest event requires a material academic penalty, such as assigning an F for a major assignment/test, the faculty member may resolve the matter directly with the student. In this case within a timely and reasonable period, the faculty member must inform the student of the academic dishonesty allegation and present to the student a letter stating the allegation, documenting any associated evidence, and detailing the academic penalty. The faculty member must inform the student that the letter will be placed on permanent file in the COB’s Dean’s Office, and that any subsequent academic dishonesty will likely result in administrative penalties, (see 4f). If the student agrees to the terms of the letter as evidenced by the student’s signature on the letter, the faculty member shall forward a copy of the letter to the Department Chair. The Department Chair will deliver the letter to the Dean’s Office and review the academic dishonesty file to determine if the student has committed any previous acts that may require further administrative penalties. The Department Chair shall report to the Dean of the COB if further action is needed.

4. When procedures outlined in the preceding paragraph are inappropriate, insufficient or unacceptable to either the faculty member or the student the following formal procedures provide due process.

   a. Except under extraordinary circumstances, within ten school days of informing the student of the alleged academic dishonesty event, the faculty member will prepare a written statement that describes and documents the academic dishonesty allegation. The statement must include all supporting evidence, and the faculty member’s recommended academic penalties. The faculty member’s statement is to be submitted to the Faculty Co-Chair of the Undergraduate Studies Committee, (hereafter referred to as Co-Chair).

   b. Except under extraordinary circumstances, within fifteen school days of receiving the faculty member’s statement, the Co-chair will provide to the student through registered mail a letter detailing the academic dishonesty allegation. This correspondence will include notice that a hearing to investigate the academic dishonesty allegation is to be scheduled at the earliest possible convenience for all persons involved.

   c. The hearing will be organized and administered by the Co-chair. The Co-chair will appoint a hearing committee, which will consist of the Co-chair plus two COB faculty members
that are currently serving on the Undergraduate Studies Committee. The student may be assisted at the hearing by an academic student advisor of his/her choosing. A request for student advisor assistance must be made through written communication to the Co-chair.
d. The student may waive the right to the hearing by admitting to the charge of academic dishonesty in a signed written statement delivered to the Co-chair of the Undergraduate Studies Committee prior to the date of the hearing.
e. At the hearing, the faculty member and the student will each be provided an opportunity to present oral testimony, written evidence, and any other evidence. The burden of establishing the student’s guilt is the responsibility of the faculty member making the allegation.
f. Except under extraordinary circumstances, within fifteen school days of the hearing, the hearing committee will render a decision on the academic dishonesty allegation and produce a written report of its findings. The Co-chair will notify the student and faculty member in writing of the hearing committee’s findings. If the student is found to be guilty of the allegation, academic penalties will be imposed, and if appropriate, administrative penalties will be recommended. The hearing committee’s decisions on academic penalties are final. All guilty findings will be placed on file under academic dishonesty events with the COB Dean’s Office. In the case of a guilty finding the Co-chair will review the file of academic dishonesty events to determine if this is a first or a repeat offense. A repeat offense will likely result in a recommendation for administrative penalties. Administrative penalties in the case of suspension or expulsion from the COB are imposed by the Dean of the COB, or by the Provost in the case of suspension or expulsion from the University.
g. In the case of recommended administrative penalties, the Dean of the COB shall review the hearing committee’s report and issue a decision regarding imposing COB administrative penalties and whether any University-wide penalties will be recommended to the Provost. Except under extraordinary circumstances, within 15 school days of receiving the hearing committee’s report, the Dean of the COB shall notify the student, the faculty member originating the academic dishonesty allegation, and the Co-chair of the hearing committee of its decision. The Dean of the COB shall forward any recommended University-wide penalties to the Provost.
h. If the student fails to appear before the hearing committee, the hearing will be held in the student’s absence and a final decision rendered. If the faculty member making the allegation of academic dishonesty fails to appear, the charges will be dropped. Unforeseen and uncontrollable events that prevent an individual’s appearance at the hearing will be considered prior to making a final decision.
i. i. In the case where multiple students are involved with the academic dishonesty allegation, each student will be dealt with individually, but the composition of the hearing committee will remain the same for all students involved with the alleged event. j. Any student who believes the processing or final disposition of a charge of academic dishonesty was unfair may initiate a grievance under the

Student Grievances

Students who wish to pursue grievances of any kind may consult with the Student Grievance Officer or the Associate Dean for Undergraduate Programs in the College of Business who will apprise the student of the policies and procedures regarding grievances. Detailed information on how to submit and pursue a grievance can be found on the Dean of Students website (http://louisville.edu/dos/help/studentgrievance).

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College of Education and Human Development

The College of Education and Human Development (CEHD), established in 1968 as the School of Education, is a college whose mission is to promote and strengthen the professional development of individuals concerned with education and human resource development in a variety of urban settings such as schools, colleges and universities, private and corporate organizations, and government agencies. This is done by conducting research, providing service, and preparing teachers, administrators, training and development specialists, and professionals in sport management, mental and physical health, and student affairs. In 2000, the name was changed to the College of Education and Human Development, to more accurately reflect the College’s mission and programs. As an urban institution, the College is particularly concerned with improving the education and quality of life for persons of all ethnic and cultural backgrounds. The administration, faculty, and staff are committed to working with other university personnel and practitioners in carrying out this mission.

As one of five Commonwealth Centers of Excellence and the only one in education, the College of Education and Human Development offers programs, which are:

- Based upon established knowledge bases that incorporate urban and global perspectives as well as current understanding of best professional practice;
- Consistent with the philosophical standards and ethical practices of relevant professional associations;
- Available to qualified individuals without regard to ethnicity, age, religion, gender, sexual orientation, disability, or national origin;
- Future oriented and open to change on the basis of inquiry and experimentation as well as the needs and expectations of those we serve;
- Rooted in the assumption that members of our faculty and staff are continuing learners who model the practices they teach, including the use of current information technologies; focused upon collaborative approaches to address the concerns of those we serve.

Structure

The College of Education and Human Development provides courses and other experiences designed to prepare professionals in school and non-school settings. It offers curricula leading to the Bachelor of Science degree in early elementary education, middle and secondary education, health and human performance, sport administration, and organizational leadership and learning.

The College of Education and Human Development also offers minors in exercise science, sport administration, and wellness coaching to support the degree programs of students both within the College of Education and Human Development and those pursuing a degree through another college at the University.

College of Education and Human Development Administration

The complete and up-to-date list of Education leadership and administration is located on the CEHD website at louisville.edu/education/about/administration.html.

Faculty and Departmental Information

The complete and up-to-date list of departments and faculty is located on the CEHD website at cehddirectory.louisville.edu.

Academic Advising

Education Advising and Student Services (EASS) is located in Room 140 of the Porter Education Building and is open Monday through Friday, 8:00 am to 5:00 pm. EASS provides prospective and current students with excellent academic advising, consistent and accurate program information, and services related to registration, financial aid, and admissions.

Please call (502) 852-5597 or email edadvise@louisville.edu to schedule an undergraduate advising appointment, to ask questions concerning enrollment and student services, or information regarding application to one of many programs offered by the College of Education and Human Development.

About the Programs

Academic Grievance Procedure

The College of Education and Human Development follows the procedures for academic grievances (p. 87) found in this catalog and as published in The Redbook, Chapter 6, Article 8. Any student considering filing such a grievance should consult with the Student Grievance Officer or the Assistant Dean for Student Services of the College of Education and Human Development, who will apprise the student of the policies and procedures regarding grievances.

Students of the College of Education & Human Development can contact Assistant Dean of Student Services, Dr. Margaret Pentecost (http://louisville.edu/cgi-bin/uofl.mail?margaret.pentecost), (502) 852-2628, for questions, concerns, and reports of student conduct, complaints, and grievances.
Statement of Policy and Procedures with Respect to Academic Integrity

A primary goal of the College of Education and Human Development is to educate men and women who will serve the education community with competence and integrity. To this end, the faculty considers academic honesty on the part of students of paramount importance. At another level, the trust existing between faculty and students must not be tainted with suspicion of dishonesty. Academic dishonesty is defined in the Code of Student Rights and Responsibilities. In the event that a student believes the following procedures for handling allegations of academic dishonesty have resulted in an injustice, that student may seek counsel from the Student Grievance Officer.

Procedures for Dealing with Breaches of Academic Integrity

1. A faculty member who believes that a student has committed an act of academic dishonesty shall, after checking with the clearinghouse to determine if the student has been found guilty of such acts previously, prepare a written statement that specifies the charge and that proposes the penalties to be imposed on the student. The proposed penalties shall be described as either:
   a. Academic penalties, which are penalties associated with the class in question, such as resubmission of or alternate assignments, F on the assignment, F for the course, etc.; or
   b. Administrative penalties, which are suggested penalties to be imposed by the Dean or Provost, such as suspension or expulsion from the College of Education and Human Development or the University.

2. The faculty member shall meet with the student in person and in private, at which time the faculty member shall:
   a. explain the basis for the allegation;
   b. give the student a copy of the written statement of the charge and proposed penalties; and
   c. give the student a copy of these procedures.

3. The student shall either admit or deny the charge of academic dishonesty in writing no later than one week after the meeting with the faculty member. If the student does not meet this deadline, the student will be deemed to have denied the charge.

4. If the student admits the charge, any proposed academic penalties shall be implemented by the faculty member. The faculty member shall then forward the Statement of Charges and proposed administrative penalties, if any, the student’s admission of guilt, and a statement of the academic penalties imposed, if any, to the Dean.

The Dean shall review the documents and shall issue a decision, within 15 school days, regarding whether any administrative sanctions shall be imposed on the student by the College of Education and Human Development, and whether any University-wide administrative sanctions will be recommended to the Provost. The Dean shall notify the student, the faculty member, the department chair, and the Associate Dean of this decision. The Dean shall forward any recommended University-wide administrative sanctions to the Provost.

5. If the student denies the charge, the faculty member shall forward the statement of the charge and proposed penalties to the department chair, or, if the department chair is the faculty member making the allegation, to the Associate Dean. The department chair or the Associate Dean shall schedule a hearing.

Notice of the hearing shall either be hand-delivered or sent by Registered U.S. Postal Service to the student, at the address listed with the Registrar’s Office, and to the faculty member via inter-office mail. The notice should be sent at least 10 school days prior to the hearing. The notice should state the time, date and place of the hearing and contain a copy of the original statement of the allegations.

At the hearing, the professor and the student will each be provided an opportunity to present oral testimony and written evidence. The burden of establishing the student’s guilt rests with the professor, who must do so by a preponderance of the evidence. A student may be assisted at the hearing by an advisor of his/her choosing. However, that person will not be permitted to speak on behalf of the student at the hearing. If the student fails to appear after proper notice, the hearing will be held in the student’s absence and a final decision rendered.

After the hearing, the chair or the Associate Dean, as appropriate, will render a decision. Decisions of academic penalties will be final. Additional administrative-penalties recommended will be forwarded to the Dean with all materials submitted at the hearing, including a brief, written statement of reasons for the finding.

The Dean will consider the recommendation. Within 10 school days, the Dean will make a decision and notify the student, the professor, and the department chair or Associate Dean of the final action taken in the case. Notice of the decision will also be sent to the Office of the Provost. If the Dean’s decision is not timely, the recommendation is voided and the action is dismissed.

Instructional Modification

Students with disabilities, who need reasonable modifications to complete assignments successfully and otherwise satisfy course criteria, are encouraged to meet with the instructor as early in the course as possible to identify and plan specific accommodations. Students may be asked to supply a letter from the Disability Resource Center or other documentation, which will assist in planning modifications.

Diversity

Diversity is a shared vision for our efforts in preparing teachers, administrators, school counselors and other professionals. Students will be encouraged to investigate and gain a current perspective of diversity issues (race, ethnicity, language, religion, culture, socioeconomic status, gender, sexual identity, disability, ability, age, national origin, geographic location, military status, etc.) related to their chosen fields. Students will also have the opportunity to examine critically how diversity issues apply to and affect philosophical positions, sociological issues, and current events in a variety of areas. Students will examine their belief systems and be encouraged to reexamine and develop more grounded beliefs and practices regarding diversity.

Student Teaching/Field Experiences

In all phases of the Developmental Teacher Preparation Model, candidates participating in field and clinical experiences must abide by all policies, rules, and regulations of the University and the assigned school. Failure to abide by standards of conduct and performance established by the faculty may result in the removal from the program. Student teaching requires a minimum 15-week clinical experience in school setting(s) related to the teaching certificate a teacher candidate is seeking. Teacher candidates work with a cooperating teacher and University Supervisor participating in the work of teaching. Placement
in student teaching is contingent upon the applicant's successful completion of required program coursework and assessments, and faculty recommendation. Evaluation is based on Kentucky Teacher Standards and Professional Code of Ethics.

**Academic Bankruptcy & Forgiveness & Fresh Start**

Academic Bankruptcy and Forgiveness policies allow students who are returning to college after an absence of two or more years to request the adjustment of their records for one or more entire semesters of previous college work, provided certain criteria are met. Additional information on Academic Bankruptcy and Forgiveness (p. 67) and the Fresh Start (p. 67) policies can be found in this catalog.

C
- Community Health (Minor) (p. 419)

E
- Early Elementary Education (BS) (p. 196)
- Exercise Science (Minor) (p. 422)

H
- Health and Human Performance (BS) (p. 220)

M
- Middle/Secondary Education (BS) (p. 253)

O
- Organizational Leadership and Learning (BS) (p. 345)

S
- Sport Administration (BS) (p. 395)
- Sport Administration (Minor) (p. 438)

**Continuing Studies**

**About the Program**

Continuing Studies is a non-degree granting unit that admits adult students who want to take courses on a part-time basis for personal enrichment or professional development. Students can earn college credit, but are not admitted into a degree program.

Continuing Studies students may enroll for a maximum of 8 hours in any semester or summer session. Students are required to maintain a 2.0 grade point average. Continuing Studies students are not eligible to receive state or federal financial aid.

Students may remain in Continuing Studies until they accumulate 24 credit hours. Students with 24 credit hours must apply for admission and be accepted by a degree-granting unit of the university if they wish to continue their course work.

**Admissions Policies**

In order to be admitted to Continuing Studies, applicants must complete an Application for Undergraduate Admission and submit an application fee. Transcripts and ACT scores are not required. However, post-baccalaureate students who wish to take prerequisite courses for a graduate-level program will need to submit a transcript to verify their status.

Continuing Studies students must meet the following criteria unless they petition the Continuing Studies Office for exception:

- Applicants must be at least 22 years old, unless the applicant will be on active military duty.
- Applicants must self-report that they have a high school diploma or high school equivalency certificate issued by the State Department of Education.
- Applicants with previous college work must self-report that they have not been dismissed from their last attended institution of higher education.
- Applicants for whom English is a second language must offer proof of English proficiency.

**Placement Tests**

Continuing Studies students may take placement tests to determine the correct level of coursework. Placement tests are available in Math and Foreign Language. CLEP (College Level Examination Program) exams may be used to gain course credit.

The placement tests and CLEP exams are scheduled through:

**The Testing Center**
310 Davidson Hall
(502) 852-6606

Students with learning or other disabilities that may interfere with placement test accuracy should contact the Disability Resource Center (902) 852-6938.

**Transfer Credits**

Transfer credits are formally evaluated only when students are accepted into a degree-granting unit.

**Enrollment**

Students must be admitted to UofL and registered for classes by the end of the first day of classes. Continuing Studies students may enroll for a maximum of 8 hours in any semester or summer session. Students must have a grade point average of 2.0 or better to remain in good standing. Students may enroll in undergraduate classes for which they have completed the prerequisites or by faculty permission.

Students with 24 credit hours must apply for admission and be accepted by a degree-granting unit if they wish to continue their course work. Units will determine which of a student's previously earned credits will apply to a particular degree or major.

Students who wish to audit courses can register for classes before the deadline and then have the audit form signed by the professor and taken directly to the Registrar's office to change the class from graded to audit.

Post-Baccalaureate students who wish to take a graduate class must get approval from the School of Interdisciplinary and Graduate Studies; interested individuals should call (502) 852-6495 for details.

**University Grade Point Average**

The University of Louisville calculates a University Grade Point Average, which becomes the standard measure of performance and the official university calculation upon which academic decisions are made. The University Grade Point Average is determined at the undergraduate level, and is based upon all undergraduate course work taken at the University of Louisville.
Courses numbered below the 100 level (000-099) will not be used in the earned hours or University Grade Point Average calculation.

Continuing Studies students must follow the instructional unit’s policies concerning adding or withdrawing from classes, pass/fail grading, incompletes, and audits.

Academic bankruptcy is not available to Continuing Studies students.

Academic Standing
Students in good standing must maintain a 2.0 cumulative Grade Point Average (GPA) in all coursework taken while enrolled in Continuing Studies.

Failure to attain a 2.0 GPA after the first semester results in Academic Warning and a restriction to an enrollment of 6 semester hours. Failure to attain a 2.0 GPA after two semesters results in Academic Probation and a restriction to an enrollment of 3 semester hours. Academic support is available for students on Academic Probation.

In any subsequent semester, a student whose Grade Point Average falls below 2.0 will be suspended from Continuing Studies.

Period Out
Students suspended from Continuing Studies after a fall semester must sit out the following spring semester; students suspended after a spring semester must sit out the following summer and fall semesters; and students suspended after a summer semester must sit out the following fall semester.

Readmission
Students suspended from Continuing Studies may appeal to the Office of Admissions for readmission after the appropriate period out. Readmission may also require assessment of the student’s academic potential and readiness to return.

To apply for readmission, students must complete both an application for admission and a petition form, available on the Office of Admissions website. High school credentials and college transcripts may also be requested for review. The forms must be returned to the office at least one month before the first day of classes for the semester for which readmission is requested.

Note: Courses taken at another institution while suspended from Continuing Studies may not be accepted for transfer credit.

Normal and Maximum Course Loads
The maximum load for each semester is 8 credit hours. Students with superior scholastic records and/or extenuating situations (e.g., Vocational Rehabilitation, 4C’s, or Military/GI Bill) may petition for an overload permission to take additional hours.

Federal Veterans Educational Benefits
Students are eligible for benefits while enrolled in Continuing Studies. Contact the Veteran Affairs Coordinator in the Registrar’s Office at (502) 852-0998 for details.

Financial Aid
Continuing Studies students are not eligible for State or Federal Financial Aid.

Additional Information
For more information regarding Continuing Studies, go to: louisville.edu/admissions/apply/cs

1 Credits earned after summer 1998

J.B. Speed School of Engineering
J.B. Speed Building, Suite 221
University of Louisville
Louisville, KY 40292

Phone: (502) 852-6281
Email: speed@louisville.edu
Web: louisville.edu/speed

About
The mission of the J.B. Speed School of Engineering is to serve the university, the Commonwealth of Kentucky, and the engineering profession by providing high quality educational programs to all students; engaging in research and scholarship that will extend knowledge; and assisting the economic development of the regional, state, and national economies through technology transfer.

The Speed Scientific School was established as part of the University of Louisville in September 1924 as a result of a $250,000 endowment from the James Breckenridge Speed Foundation. James Breckenridge Speed (1844–1912) was a descendant of the prominent Speed family and an industrial pioneer in the City of Louisville. An illustrious business leader, he oversaw the establishment of Louisville’s street railway system, developed and operated large coal interests in Kentucky and was president of the Louisville Cement Company and the Ohio Valley Telephone Company. These industries, in which he maintained an active interest until his death in 1912, were a nucleus around which the City of Louisville and its greater metropolitan area grew to their present industrial stature. It is fitting that his memory be perpetuated in an engineering school bearing his name.

A pioneer class of 72 students started in Fall 1925 in chemical, civil, electrical, and mechanical engineering. The newly renovated Brigman Hall served as the main engineering building until 1942. Upon its inception, the Speed Scientific School offered a four-year Bachelor of Science degree based on a quarter plan, with alternating quarters of coursework and cooperative industry experience in the sophomore and junior years. To this day, the cooperative education program has been a mainstay of the curriculum and Speed School remains as one of the few engineering schools with a mandatory program.
The engineering campus continued to grow through the generosity of Dr. William S. Speed and Mrs. Olive Speed Sackett, the children of James Breckenridge Speed and benefactors of his foundation, and Mrs. Virginia Speed, his wife. They made additional grants toward the erection of the James B. Speed Building (1942), Frederic M. Sackett Hall (1948), and William S. Speed Hall (1958). The Institute of Industrial Research (1946) was also constructed during this period and was later renovated to become the Laura Kersey Library, named after the first Speed School librarian. Kersey Library was again renovated in 2009 and is now the Guthrie Center for Engineering.

The Speed School campus continued its growth on the south side of Eastern Parkway. The Chemical Engineering Building was built in 1967 and renamed in 1975 to honor Robert C. Ernst, who served as the third Dean of Speed School. The Vogt Building, a computerized engineering design center, was built in 1989 to honor Henry Vogt, whose family continues to play an important role in Speed School. Speed School then spread to the other side of Eastern Parkway with the construction of the New Academic Building in 1996. This building was later dedicated to Paul B. Lutz, an outstanding engineering faculty member and benefactor. Lutz Hall houses several research labs and centers and is home to the bioengineering program, the newest of the degree programs. In the 1970s the school had also added degree programs in computer engineering and industrial engineering. The newest addition to the Speed campus is the Shumaker Research Building (2006), housing a world-class cleanroom facility and numerous engineering research efforts.

In 2004, the J.B. Speed Scientific School officially changed its name to the J.B. Speed School of Engineering, reflecting its emphasis on engineering. It is also simply referred to as Speed School by those familiar with the school.

A formal definition of engineering was approved in 1979 by the Engineers Council for Professional Development, now known as the Engineering Accreditation Commission of ABET, www.abet.org (http://www.abet.org), the accrediting board for engineering and technology programs. This definition still applies today:

“Engineering is the profession in which knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.”

Students of engineering should graduate with knowledge of engineering sciences and design, experience working in teams, have strong written and oral communication skills, and be well-versed on the impact of solutions in a global, economic, environmental, and social context. In particular, engineers have a duty to society to understand and abide by their discipline’s Codes of Ethics. The preamble of the National Society of Professional Engineers (NSPE) Code of Ethics for Engineers states:

“Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of honesty and integrity.

Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct.”

Structure

The engineering programs are structured such that students will complete a program consisting of two semesters in Engineering Fundamentals, nine or ten semesters in Departmental Studies to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. To complete the program in five years, Speed School students have a full course load during the summer semesters. The curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering (MEng) degree. The Bachelor of Science and Master of Engineering programs are both accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

The Engineering Fundamentals Department teaches engineering mathematics courses and other introductory engineering courses. The department focuses on creating a positive and supportive environment that helps students succeed in their studies and finalize their selection of engineering major. Departmental faculty strive to achieve excellence in teaching while introducing students to the engineering profession and providing them with fundamental engineering skills through a common set of core courses that begin in the freshman year. The department houses Speed School’s Center for Teaching and Learning Engineering that fosters the development, evaluation and adoption of innovative teaching methods, both traditional and technology enabled.

Speed School Administration

The complete and up-to-date list of Speed leadership is located on the Speed website at louisville.edu/speed/about/administration.

Faculty and Departmental Information

The complete and up-to-date lists of departments and faculty also are located on the Speed School website (http://louisville.edu/speed).

Advising Services

Upon admittance to the J.B. Speed School of Engineering, students will be assigned an academic counselor. The academic counselors introduce students to a range of services provided by the J.B. Speed School of Engineering and will guide and support students as they advance through the engineering curriculum. The J. B. Speed School of Engineering staffs professional academic counselors dedicated to:

• Assisting students in selecting appropriate required and elective courses
• Helping students determine choice of major
• Assisting students who are experiencing academic difficulties in their courses
• Maintaining complete and accurate files on each advisee in order to monitor progress toward career goals
• Assisting students to identify opportunities for engagement

All BS students are required to be advised by their academic counselor each semester. Students will be unable to register for classes until cleared by their academic counselor. Academic counselors are located in the Engineering Office of Student Success, located in the lower level of the J.B. Speed Building.

For further information about academic advising in the School of Engineering, call (502) 852-8084 or email the Advising Office (http://louisville.edu/cgi-bin/uofl.mail?name=ssadvise).
About the Programs

The engineering programs of the University of Louisville are offered through the J.B. Speed School of Engineering. The typical undergraduate program of study covers a period of four calendar years spanning eleven semesters, which includes three summer semesters. Study includes both academic course work and cooperative work experience with industry, wherein a student is provided with conditions similar to those encountered in engineering practice.

Upon successful completion of undergraduate study and cooperative education, the student receives the Bachelor of Science degree in one of seven areas of specialization (see Programs of Study tab).

Students completing requirements for the Bachelor of Science degree at the J.B. Speed School of Engineering and achieving the required grade point average are encouraged to complete the requirements for the Master of Engineering (MEng) degree if the professional practice of engineering is a career objective. The five-year MEng program at the University of Louisville includes one year of graduate study beyond the four years of undergraduate studies.

Additionally, the Kentucky State Board of Licensure for Professional Engineers and Land Surveyors allows a student of the J.B. Speed School of Engineering who has completed 105 semester hours in an engineering curriculum to sit for the Fundamentals of Engineering examination as part of the requirements for registration as a Professional Engineer in Kentucky.

Students with a Bachelor of Science degree from another accredited program who come to the J.B. Speed School of Engineering to pursue an advanced degree normally enter into a Master of Science (MS) or doctoral (PhD) program. In addition to the previously mentioned seven areas of specialization, a master’s program in Engineering Management is also offered by the Industrial Engineering Department. The Master of Science and Doctor of Philosophy degrees are available in all areas of specialization except for bioengineering which offers a PhD in Interdisciplinary Studies: Specialization in Translational Bioengineering. Information about these degrees and other advanced degrees awarded by the University of Louisville may be obtained from the Graduate Catalog.

The conferring of degrees by the University of Louisville is conditioned upon timely completion of all requirements in the opinion of the Dean and faculty and issuance of appropriate formal documents by the Registrar, regardless of participation in commencement.

Accreditation

The agency responsible for the accreditation of educational programs leading to degrees in engineering is the Engineering Accreditation Commission of ABET (http://www.abet.org), originally known as the Accreditation Board for Engineering and Technology. The purpose of accreditation is to identify those institutions which offer professional programs in engineering and demonstrate that the programs meet specified criteria. Accreditation of engineering programs began in 1932 and the University of Louisville’s engineering programs have been continuously accredited from this time.

All accredited engineering programs must demonstrate that their students attain the following Student Outcomes:

- An ability to apply knowledge of mathematics, science, and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- An ability to function on multidisciplinary teams
- An ability to identify, formulate, and solve engineering problems
- An understanding of professional and ethical responsibility
- An ability to communicate effectively
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- A recognition of the need for, and an ability to engage in life-long learning
- A knowledge of contemporary issues
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

All undergraduate Speed School programs demonstrate that these outcomes are attained through an assessment process documented with the Engineering Accreditation Commission of ABET (http://www.abet.org).

The University of Louisville is currently the only university in the country with programs having both baccalaureate- and master’s-level accreditation. The accredited programs are the Bachelor of Science (BS) and Master of Engineering (MEng) programs in Bioengineering, Chemical Engineering, Civil Engineering, Computer Engineering and Computer Science, Electrical Engineering, Industrial Engineering, and Mechanical Engineering.

Code of Student Conduct

The Code of Student Conduct is the University’s policy regarding non-academic discipline of students. The general responsibility for non-academic discipline of all students enrolled in the University of Louisville shall be vested in the Office of the Vice President for Student Affairs. The Dean of Students Office has been delegated the
responsibility of administering the Code of Student Conduct. The Code of Student Conduct is available online at louisville.edu/dos/students/codeofconduct.

**Code of Student Rights and Responsibilities**

The Code of Student Rights and Responsibilities is set forth in writing in order to give students general notice of certain of their rights and responsibilities at the University of Louisville. Further rights and responsibilities are set forth in other University rules and policies, including the Code of Student Conduct and academic unit bulletins. The Code of Student Rights and responsibilities is available online at louisville.edu/dos/students/studentrightsandresponsibilities.

**Student Classroom Conduct**

Students are expected to cooperate with all instructors to achieve an optimal learning environment. Conduct that disrupts such an environment will be dealt with and may result in the student being withdrawn from the course and/or facing additional academic penalties.

**Academic Dishonesty**

A primary goal of the School of Engineering is to educate men and women who will serve the engineering community with competence and integrity. Academic dishonesty is a serious offense at the J.B. Speed School of Engineering because it undermines the bonds of trust and honesty between members of the community and defrauds those who may eventually depend upon our knowledge and integrity. Students are expected to recognize and to uphold standards of intellectual integrity. The School of Engineering assumes, as a minimum standard of conduct in academic matters, that the student is honest; credit for courses is given and received on the assumption and condition that all work submitted represents the student’s own efforts. Academic dishonesty is defined in the Code of Student Rights and Responsibilities. It is the student’s responsibility to become familiar with the Code.

In accordance with The Code of Student Rights and Responsibilities, academic dishonesty is prohibited at the University of Louisville.

An instructor who believes a student has committed an act of academic dishonesty will notify the student. This notification will include an explanation of the basis for the allegation and the academic penalties. Academic penalties are penalties associated with the class in question, such as resubmission of alternate assignment, F on the assignment, F for the course, etc. The student will have 10 school days to notify the instructor whether the student accepts or does not accept the academic penalties. Failure to notify the instructor within 10 school days will result in the actions detailed in step 2 below.

If the student accepts the instructor's academic penalties or the student fails to notify the instructor within 10 school days, the following actions will occur:

- The instructor implements the academic penalties.
- The instructor notifies the department chair and SSoE Associate Dean of Academic Affairs of the incident and imposed penalties within 10 school days of receiving the student’s notification of accepting the penalties.
- The SSoE Associate Dean for Academic Affairs will review the documents within 10 school days of receipt and issue a decision regarding whether any administrative sanctions will be imposed on the student by the J.B. Speed School of Engineering, and whether any University-wide sanctions will be recommended to the Provost. Administrative penalties may include suspension or expulsion from the J.B. Speed School of Engineering or the University of Louisville. The Dean will notify the student, the instructor and the Department Chair of this decision. The Dean will forward any recommended University-wide sanctions to the Provost.

If the student does not accept the instructor’s academic penalties, the following actions will occur:

- The department chair, or if the department chair is the instructor making the allegation, the SSoE Associate Dean of Academic Affairs will meet with the student in a timely manner.
- At the meeting, the student will be provided an opportunity to present oral testimony and written evidence. The burden of establishing the student’s guilt rests with the instructor, who must do so by a preponderance of the evidence. After the meeting, the department chair or the Associate Dean, as appropriate, will render a decision within 10 school days of meeting with the student and submit written documentation of the incident and decision to the SSoE Associate Dean of Academic Affairs.

- If the student fails to appear at the meeting a final decision will be rendered by the department chair or SSoE Associate Dean of Academic Affairs.
- The SSoE Associate Dean for Academic Affairs will review the documents within 10 school days of receipt and issue a decision regarding whether any administrative sanctions will be imposed on the student by the J.B. Speed School of Engineering, and whether any University-wide sanctions will be recommended to the Provost.

Administrative penalties that may include suspension or expulsion from the J.B. Speed School of Engineering or the University of Louisville. The Dean will notify the student, the instructor and the Department Chair of this decision. The Dean will forward any recommended University-wide sanctions to the Provost.

Any student who believes the processing or final disposition of a charge of academic dishonesty was unfair may initiate a grievance under the Academic Grievance Procedure. The J.B. Speed School of Engineering follows the procedures for academic grievance as published in The Redbook, Chapter Six, Article Eight (http://www.louisville.edu/provost/redbook).

**Student Complaints**

If a student has a complaint about courses, grades, deficiencies, or decisions made by faculty members, advisors, department chairs, directors, etc., they should use the procedure outlined below.

- The student should first discuss the matter with the person involved and attempt to resolve the complaint through informal discussion.
- If there is no resolution, the student should discuss the matter with that person’s supervisor or immediate superior in the department or office, who should attempt to mediate a resolution.
- If there is no resolution as the result of these discussions, the student should write to the appropriate department chair or director specifying the nature of the concern, with a copy of the letter to the Associate Dean for Academic and Student Affairs.
- If the student is unable to obtain a resolution through these procedures, he or she may request the Student Grievance Office to attempt informal mediation of the problem.

A student wishing to file a formal complaint should do so with the Dean of Students Office. See procedure here: louisville.edu/dos/help/student-complaint-procedure.
Social work is a profession concerned with the prevention and amelioration of social problems and the enhancement of the quality of human life. Social workers achieve these goals through direct practice with individuals, families, groups, and community organizations; advocacy; social planning; social policy analysis and formulation; research; and administration. Social work practice helps people mobilize their resources to deal with present circumstances and to enlarge their prospects for the future. Since problems of meaningful way in isolation from the broad social and community context in which they occur, social work also takes a leadership role in bringing about institutional and social change.

**Structure**

The School provides a broad-based education for college or university graduates wishing to continue their studies and for professionals returning to school to enhance their skills. The Bachelor of Social Work (BSW) degree program is designed to prepare students for entry into the profession as generalist practitioners. The Master of Science in Social Work (MSSW) degree program is designed to help students achieve their maximum potential through a carefully structured curriculum of foundation and advanced course work. Preparation for leadership in advanced professional practice is a vital part of the School's curriculum.

Bachelors of social work programs, under the accreditation banner of the Council on Social Work Education (CSWE), are directed in matters of curriculum to promote the knowledge, values and skills of the profession. At the baccalaureate level, students are prepared for entry into the profession as generalist practitioners. Guided by program mission and goals, the generalist model is built upon a conceptual framework that includes relevant theories and knowledge to build practice skills. The professional level courses at the junior and senior year level are grounded in the liberal arts and carefully integrate that knowledge into the learning of professional content. The Educational Policy and Accreditation Standards of CSWE establish the base of program learning expectations.

**Goal I (Curriculum):** To ensure that graduates will be prepared at the foundation level to practice social work that is framed by a generalist practice base, and an ability to understand social problems at multiple levels.

The program objectives derive directly from the Educational Policy (3.0) of CSWE in preparing students for practice at the generalist level and also for providing a firm foundation for those who seek graduate educational opportunities in social work. To meet those requirements, the Kent School has established the following program objectives that will frame the assessment of learning that obtains to the BSW Program.

Students who graduate from the BSW Program will demonstrate the ability to:

- Objective 1: Apply critical thinking skills within the context of professional social work practice.
- Objective 2: Understand the value base of the profession and its ethical standards and principles, and practice accordingly.
- Objective 3: Practice without discrimination and with respect, knowledge, and skills related to clients’ age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.
- Objective 4: Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice.
- Objective 5: Understand and interpret the history of the social work profession and its contemporary structures and issues.
- Objective 6: Apply the knowledge and skills of a generalist social work practice with systems of all sizes.
- Objective 7: Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities.
- Objective 8: Analyze, formulate, and influence social policies.
• Objective 9: Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions.
• Objective 10: Use communication skills differentially across client populations, colleagues, and communities.
• Objective 11: Use supervision and consultation appropriate to social work practice.
• Objective 12: Function within the structure of organizations and service delivery systems and seek necessary organizational change.

Goal II (Curriculum): To prepare students for advanced graduate work in social work.

• Objective: The Kent School will prepare students with a quality education that will support their admission to and successful completion of graduate social work degrees.

Goal III (School's relationship with the community): To build collaboration and partnerships for community building and problem solving:

• Objective: The Kent School will provide professional expertise in the community in partnership with agencies and institutions to build a stronger community in the metropolitan region of Louisville.

Goal III (Overall program goal): To contribute to the development of new social work knowledge through scholarship and research.

• Objective: The Kent School will develop research and scholarship that adds to the knowledge base of the social work profession.

About the Program

The Kent School Curriculum is designed to enhance students’ ability to help them and the diverse client systems they work with to make decisions that contribute to the quality and health of these client systems and that will promote social justice. It is designed to graduate social workers who think critically about what they do, why they do it, and what outcomes they hope will result from the social work practice they do.

Critical thinking is defined as “the intellectual disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and/or evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief or action” (Scriven & Paul, 2004). Critical thinking includes specific skills such as problem-solving and the ability to integrate knowledge from multiple disciplines and theories of human behavior. Throughout the curriculum, there is an emphasis on critical reflection, or appraisal of various points of view no matter what the source. The curriculum draws heavily on social science knowledge and integrates this with problem-solving phases such as assessment, intervention, and evaluation. In this respect, the curriculum is designed to teach students to access, integrate, and assess practice and policy related research to solve social problems and to work towards social justice. When critical thinking skills are used effectively, it leads to transparency and promotes social change, particularly with and on behalf of vulnerable and oppressed individuals and groups of people.

In the foundation curriculum, students are introduced to critical thinking. They are guided by faculty to develop critical thinking skills throughout all the foundation level courses. The BSW curriculum promotes a generalist perspective in which the simultaneous impact of many systemic levels (individuals, families, groups, organizations, and communities) on clients’ lives is critically analyzed and recognized. The curriculum builds upon a liberal arts base that fosters an understanding of society as a complex organization of diverse people and ideas. Social problems are understood as occurring within the nexus of culture, conflict, development, ecology, and systems and as such, efforts to help or intervene must include consideration of these forces. Students will be able to critically identify and assess social problems, specifically attending to 1) how such problems are maintained, 2) how they impact the quality of people’s life, 3) cultural sensitivity and appreciation of marginalized people, and 4) how to actively promote social and economic justice. In the foundational year, the focus is on the development of critical thinking skills in all the areas mentioned. The BSW curriculum is to prepare students for generalist practice; that is to develop knowledge and skills for entry level professional social work practice that recognizes the importance of multi-level systemic intervention.

Academic Misconduct

It is expected that a student in the Kent School of Social Work will refrain from plagiarism and cheating. Plagiarism and cheating are serious breaches of academic conduct and may result in permanent dismissal. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty.

Multiple Submission

The submission of substantial portions of the same academic work, including oral reports, for credit more than once may be considered plagiarism without prior authorization by the teacher.

Student Conduct Policies

Students entering the Kent School of Social Work, by their formal acceptance into the School, agree to abide by The Code of Ethics of the National Association of Social Workers (https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English) and the Code of Student Conduct of the University of Louisville.

The NASW Code of Ethics provides guidelines for the professional conduct of social workers. Since the profession is directed by a commitment to core values, the Code provides for conduct related to principles of service, social justice, dignity and worth of the individual, the importance of human relationships, integrity, and competence. These values and the standards inherent in them provide a context for expected behavior during the period of enrollment in the educational programs of the Kent School of Social Work, and for the development of lifelong professional standards. Issues of concern related to this area are referred to the Academic and Professional Standards Review Committee.

Dismissed Students

If the Academic and Professional Standards Review Committee decide to dismiss a student from Kent School and if this dismissal is approved by the Dean, students will only be allowed to return to Kent School in rare cases. Students who wish to return must write an appeal letter to the BSW Director, stating their reasons why they think they can return to Kent School to complete their studies.

Advising Services

The Kent School of Social Work Advising and Student Services strives to provide students with excellent academic advising, consistent and accurate program information, and services related to registration, financial aid, and admissions.

Our office is located in Oppenheimer Hall. Please call for an undergraduate advising appointment, questions concerning enrollment and student services, or information regarding application to the BSW
Kent School Administration
The complete and up-to-date list of Kent School leadership is located on the Kent School website at louisville.edu/kent/.

Faculty and Departmental Information
The complete and up-to-date list of Kent School faculty is located on the Kent School website at louisville.edu/kent/about/faculty-1.

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School of Dentistry

School of Dentistry
Office of Student Affairs, Room 234
501 South Preston Street
Louisville, KY 40202

Email: dhygiene@louisville.edu
Web: louisville.edu/dentistry/degrees/hygiene

Advising Services
Monday and Thursday:
Studio Arts/HSC Advising Center Room 103

Tuesday, Wednesday, Friday:
School of Dentistry 501 S. Preston St.

Phone: (502) 852-5081

About the School of Dentistry
Offering outstanding clinical education, pioneering simulation education and technology, and leading biomedical research, the University of Louisville School of Dentistry (ULSD) continues its quest to provide quality education and unique opportunities. The philosophy of the school is to consider students partners in learning and to provide them with the knowledge and skills to meet the challenges of today's dental profession.

The School of Dentistry is a state-supported institution located within the University Health Sciences Center (HSC) in downtown Louisville (metropolitan area population of more than one million). Founded in 1887, the school is housed in a building that opened in 1970 as part of the HSC campus. Total renovation of the clinics and classrooms, including state-of-the-art technology, was completed in 2011. The School of Dentistry houses clinical care services for community members as well as education for students within the same structure.

The School of Dentistry offers degrees at the undergraduate, graduate and professional levels. The undergraduate Bachelor of Science in Dental Hygiene program is unique in being offered through a School of Dentistry, where students learn alongside their future peers in the dental field.

About the Dental Hygiene Program
The Office of Dental Student Affairs is available to assist students in planning their academic program and to provide students with information regarding policies, procedures, and general information.

It is the student’s responsibility to be knowledgeable of the policies and procedures, and to take the initiative in seeking help and advice. Students are encouraged to contact the office whenever they have a question, a problem, concern.

Name/Address Changes
It is the student’s responsibility to update any change in name, address, or telephone number. The student may complete a name/address change through the ULink option available from the UofL website or in the Registrar’s Office on Belknap Campus or by calling that office at (502) 852-6522.

Minimum Technical Standards
The University of Louisville School of Dentistry is committed to the principle of diversity in all areas. In that spirit, admission to the School is open to all qualified individuals and complies with section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (1993).

The School recognizes the award of a Bachelor of Science in Dental Hygiene degree carries with it the full authority of the institution and communicates to those who might seek the services of the bearer that he or she is competent to practice dentistry. This degree is unique in that the graduate is prepared and, upon licensure, is allowed to practice all disciplines of the dental profession. This requires that the student acquire didactic knowledge as well as learning skills and attitudes essential to the profession and agreed upon by the faculty as requisite for the practice of dentistry. The student requires both cognitive and technical skills to negotiate the curriculum.

The School is aware of the unique nature of the dental curriculum. Applicants must possess the skills and abilities that will allow them to successfully complete the course of study and receive the full benefit of the education. In the process the student is required to manage or perform treatment on the patients of the School. The School has the responsibility of ensuring the well-being of patients. This includes the completion of treatment safely and within an acceptable amount of time. With this in mind, the student must be able to meet the following technical standards with or without accommodation:

• Motor Skills
• Sensory/Observation
• Communication
• Cognitive
• Behavioral
• Immunizations

Disability Statement
Students with disabilities who need reasonable modifications to successfully complete assignments and satisfy other course criteria
are encouraged to meet with the course instructor as early as possible to identify and plan specific accommodations. Students may be asked to supply a letter from the Disability Resource Center or other documentation which will assist in modification planning.

**Student Conduct Policies**
The University of Louisville expects its students and student organizations to conduct themselves according to generally accepted moral and social standards and to respect the rights and privileges of others. Students who enroll in the University of Louisville dental hygiene program are subject to the rules and regulations of the University.

**Ethical Violations**
The dental hygiene program expects high ethical standards. As future professionals, students should exhibit appropriate professional ethical behavior in all academic and clinical matters.

A student may be dismissed from the program due to unethical conduct. A formal procedure has been established to review cases where a student is accused of unethical behavior.

**Drug Use Prohibited**
In accordance with the statutes of the Commonwealth of Kentucky, the possession, use or distribution of hallucinogenic and/or illegal drugs will not be tolerated on University property. Infractions will result in disciplinary action by the University which may lead to suspension or dismissal from the dental hygiene program.

**Student Rights**
Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance in accordance with procedures established in the University's Redbook. Students would first seek to have the matter resolved through informal discussion and through administrative channels. Information about processing a grievance may be obtained from the School of Dentistry's associate dean for academic affairs.

**Student Health Policy**
Each student must comply with the current health policy of the School of Dentistry. Because of contractual agreements with agencies and the changing needs of society, this policy is updated periodically. The current health policies are published in the School of Dentistry Dental Hygiene Undergraduate Student Handbook. It is the responsibility of the student to maintain his or her health in order to ensure safety for other students and patients. If faculty or the agency deem that any student creates a health or safety risk, the student may be excluded from the clinical experience and/or program.

**Liability and Health Insurance**
All upper division dental hygiene students are required to submit proof of health care insurance coverage. Students can be covered under the University's student health insurance coverage. If students carry their own coverage, they can waive the University student health coverage by completing the online waiver form.

Liability/malpractice insurance is provided for all ULSD upper division students during their intern and extern experiences, including AHEC.

**Immunization Requirements**
All students are to comply with the University of Louisville Health Sciences Center immunizations requirements. Those requirements are distributed to students prior to matriculation.

Policies and procedures for immunization, testing, and post exposure incidents have been developed to comply with Occupational Safety and Health Administration (OSHA), Centers for Disease Control (CDC), American Dental Association (ADA), American Dental Hygienists’ Association (ADHA), and extramural site recommendations or policies. Dental hygiene students, in the course of their clinical responsibilities, have exposure to blood, blood products, tissue, secretions, or body fluids of patients potentially containing hepatitis B (HBV) and are at risk for HBV as well as other infectious diseases. The following immunizations require documentation prior to matriculation and must be submitted on the Immunization Reporting Form to the Office of Clinical Affairs prior to the first day of class: measles, mumps, rubella, tetanus-diphtheria-pertussis, varicella, hepatitis-B (series must be initiated-first and second doses), and tuberculin skin test. A tuberculin skin test is required on a yearly basis for all students. All students must maintain compliance with the University of Louisville Health Sciences immunization and testing requirements. Students must be in compliance with immunization and testing prior to contact with patients in the clinical areas. Any student not in compliance will not be allowed in the clinical areas.

Students are strongly advised to consider latex allergy testing prior to matriculation if there is a medical history indicating latex sensitivity.

**Transportation**
Students are responsible for providing their own transportation to and from clinical sites as needed. Students are not allowed to provide transportation for patients.

**Policy on Clinical Attire**
The University of Louisville School of Dentistry expects the student entering the professional clinical/academic program to present a neat, clean, and professional attired appearance. The current policy is published in the School of Dentistry Student Clinic Manual and is updated periodically. All students must maintain compliance with the current policy. Final evaluation of student compliance with the dress code will rest with the Office of Clinic Affairs and the program faculty and director.

**Academic Achievement Committee**
The Dental Hygiene Academic Achievement Committee Guidelines (DH-AAC Guidelines) have been developed by the dental hygiene faculty of the School of Dentistry to provide students and faculty with pertinent information about the academic and professional standards of the School and about the process and procedures used to review student performance. Admitted upper division students are provided these guidelines, updated annually, via Blackboard.

Academic bankruptcy and forgiveness policies allow students who are returning to college after an absence of two or more years to request the adjustment of their records for one or more entire semesters of previous college work, provided certain criteria are met. View information on academic bankruptcy and forgiveness and the new Fresh Start policy in the academic policies section of this catalog.
Advising Services

Lower Division Advising

All dental hygiene students are encouraged to meet with an advisor to seek support and referral information as needed. The academic counselor for the dental hygiene program has office hours on both the Belknap and HSC campuses. Students may call (502) 852-5081 for an appointment on either campus.

Freshmen students and transfers with less than 30 credit hours earned are required to be advised prior to registration. Students on conditional, warning or probationary status must also be advised prior to registering for courses. Students who are out of sequence in their program of study must meet with their advisor to revise their program of study.

Upper Division Advising

Academic advising is available to upper division students through the program advisor, program faculty, and the School of Dentistry academic support counselor.

School of Music

While pursuing their studies, students are exposed to a full schedule of concerts and recitals by world-renown artists and performers.

The School of Music, founded in 1932, has been located on the Belknap Campus since 1980 in a building which was designed and built specifically for music. It contains two recital halls, a 15,000 square-foot music library, forty-four teaching studios, seventy-six practice rooms, and three dance studios.

Music Administration

The complete and up-to-date list of Music leadership is located on the Music website at louisville.edu/music.

Faculty & Departmental Information

The complete and up-to-date lists of departments and faculty also are located on the School of Music website.

Advising Services

All School of Music students are advised by the Academic Counselor who assists with registration, monitors progress in courses required for their major, and reviews progress made toward completion of Upper Division course prerequisites.

Advising is required for all music students until they have completed all prerequisites for Upper Division courses (see the Upper Division Assessment on following section of this document; the Upper Division Assessment can also be found in each degree plan in the degree section of the catalog). Students will be blocked from registration for classes until the advising requirement has been satisfied.

About the Program

The officials and instructors of the School of Music do not assume the responsibility of notifying students concerning the regulations of the School of Music or their particular status in regard to credits, requirements, or quality points. They are more than willing to inform them at any time they request the information. It is the responsibility of students to inform themselves in regard to grades, credits, requirements, quality points, and the regulations applying to students in the School of Music. The schedules, fees, and regulations specified are subject to change without notice. Any email communication with students will be on their university email only. Students must be responsible and check their university email on a daily basis.

Enrollment

In order to take music courses, students must be enrolled in the School of Music or have permission of the instructor.

Official notices

Students must respond to official notices issued by administrative boards or sent by individual letters. Failure to comply may lead to suspension from the school. During the semester, an instructor shall notify each student whose work is below the grade of C and shall report his/her name to the Dean.

Music Fees

All School of Music majors are charged a Student Music Fee each semester, pro-rated for part-time students. This fee helps to offset expenditures exclusively related to music majors including, but not limited to accompanists, technology and infrastructure, student activities, and student tickets to concerts. Of direct benefit to music students is...
the access to four, one-hour services each semester with a staff piano accompanist, the availability of half-hour, secondary instrument applied music lessons on a space available/permission of secondary and major teachers for four semesters, and free tickets provided to Louisville Ballet, Chamber Music Society, Kentucky Opera, Speed Concert Series, and Louisville Orchestra Classics events. Music minors and non-music majors approved to take applied lessons within the School of Music will be charged a Non-Music Major Applied Lesson Fee.

Music Requirements

Electives

Music electives in any Bachelor of Music degree should be chosen from courses in Music History, Music Theory/Composition, Music Education, Music Literature, Music Pedagogy, Music Therapy, Jazz, a secondary applied area, or a non-required ensemble. Courses beyond the degree requirement in the student's major applied area in the required major ensemble(s) are not appropriate.

For the Bachelor of Arts degree, in addition to the electives listed for the Bachelor of Music, applied music courses beyond the required four semesters are acceptable as music electives. MUH courses will not be accepted as music electives. School of Music students may count up to two one-hour Physical Education courses toward the general elective requirement.

Applied Music Lesson Credit

All full-time students pursuing a professional degree in music (with the exception of Music Therapy and Composition majors) will receive a one-hour private lesson per week in their major applied music subject, regardless of the number of credit hours allowed for the course. Music Therapy majors are required to take 8 credits of study on their principal instrument. This can be done in 4 semesters of 1-hour lessons at 2 credits each, 8 semesters of half-hour lessons at 1 credit each, or a combination of the two. Composition majors take 4 semesters of 2-credit lessons and 4 semesters of 1-credit lessons. Students enrolled in the BA degree program will receive a minimum of a half-hour lesson per week in applied music for four semesters. In general, applied music courses require one hour of daily practice for each hour of credit.

Applied Music Teacher Assignment

Each entering student will be assigned to an applied music instructor. If the student prefers to choose his/her own teacher, every effort will be made to accommodate those students who wish to choose their own teachers. If, for any reason, a student desires to change applied music teachers, the student's request will be considered by the Concentration Coordinator in consultation with the Department Chair. In the event that the Concentration Coordinator is the student's current applied teacher, the Department Chair will appoint another faculty member from the Concentration to consider the request.

Applied Music Grade Requirements

A student pursuing a degree in music who does not receive a grade of C-minus or above on their instrument or voice at the end of any semester must repeat that level. If a grade of C-minus or above is not received at the end of the next semester's study, the student will not be allowed to continue study in the School of Music. Exceptions to this rule must be by written notice of faculty action.

Attendance at Area Meetings

Attendance is required at all Area Meetings for students in the area. These are usually not weekly events, but held a few announced times during the semester. Non-area meeting weeks are reserved for studio master classes during that time.

Public Performance

Students are encouraged to be active in public performance and should consult their applied teacher in preparing for their performances.

Student Performance Requirement

Students taking applied lessons for 2 or 4 credit hours must perform at least once per semester in a public forum after receiving credit for their first semester of applied study. Such performances may be of the following types: convocation, area recital, major opera role, full or half solo recital, solo performance with a major ensemble, or other performance sanctioned in advance by the student's instructor. Each performance must be included on the Repertory Record form submitted at the applied exam.

Applied Music Jury Examinations

Students requesting credit for applied music study, with the exception of Functional Study, shall be examined by a committee of the faculty at the end of each grading period. The means of assessment for Functional Study will be determined by the applied faculty member and clearly indicated in the syllabus. This includes students studying at the Functional or Secondary levels. Literature presented for examination may not be repeated in whole or in part at a subsequent examination. An exception may occur in areas that require a self-prepared work on the jury. In such cases, a self-prepared work presented at a jury may be repeated on a second jury if the work has been studied in detail at a later date with the teacher.

For the sophomore evaluation applied examination (students registered for MUS 202, MUS 204, MUS 206, MUS 212, MUS 214), each student must perform eleven minutes of music consisting of a minimum of three pieces of varying styles. If the length of the selected works will not allow three pieces to be heard within the allotted time, the student should consult with the applied teacher to select appropriate cuts or stopping points. If a composition has an accompaniment, it must be performed with accompaniment. At least one of the pieces on the jury must be with accompaniment (with the exception of keyboard instruments, guitar, and harp).

Faculty may grade their own students on all applied exams, including the Sophomore Applied Examinations Examination.

Final Applied Grade

The applied instructor may set their own grading policy for the applied lesson but the weight of the jury grade should be no less than 30 percent and no more than 50 percent of the student's final grade. Criteria for the applied lesson grade during the semester of the recital will be determined by the applied instructor and stated on the syllabus.

Advanced-Standing Credit

Advanced-standing credit in any applied music subject (piano, voice, organ, guitar, band, or orchestral instruments) or in music theory will be granted only by examination, and then only after the student has satisfactorily pursued advanced work in that subject for one semester.

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements
and standards of the review are established by the faculty and include credit for Theory IV (MUS 242) or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music and New Media; MUS 361-01 Music Literature; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with “S” for 4 semesters; Ensemble Participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105 and 3 additional General Education/Cardinal Core courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

Participation in ensembles
The following are the guidelines by which undergraduate music students participate in ensembles:

1) All full-time undergraduate music majors are required to participate each semester in the principal ensemble designated for their primary instrument:
   • Strings: Symphony Orchestra
   • Woodwind, brass, or percussion: Symphonic Band, Concert Band, Wind Ensemble, Wind Symphony, Marching Band*
   • Voice: Collegiate Chorale, University Chorus*
   • Keyboard/Guitar: Any of the above dependent upon qualifications and/or interests*
   • Jazz: Jazz Ensemble, Jazz Lab, Jazz Repertory Ensemble, Vocal Jazz Ensemble*  

* Specific ensemble assignment is solely dependent on the result of the ensemble audition.

Note: The principal ensemble is the only ensemble that can fulfill the ensemble requirement for each degree program.

Full-time students who fail to enroll for a major ensemble each semester will be in violation of the catalog and subject to academic action. A student who fails to register for the appropriate ensemble during a semester will be placed on immediate Academic Warning. If the student has failed to resolve the ensemble registration by the end of the semester, the student will be placed on Academic Probation. A student who fails to register for the appropriate ensemble in a second consecutive semester will, if the ensemble has not been added by the end of the first week of classes, be placed on immediate Academic Suspension.

2) For all part-time students, participation in a principal ensemble must keep pace with the number of hours accumulated. For each 15 hours completed, at least one credit hour must be in ensemble.

3) Full-time non-degree (special) students must participate in an appropriate principal ensemble. Part-time non-degree students are not required to do so.

4) Music Therapy equivalency students holding a degree in music (or with a bachelor’s degree in a different field, but whose transcripts indicate that they have taken eight ensembles), are not required to take an ensemble.

5) Under no circumstances will participation in amateur, semiprofessional, or professional organizations outside the University be substituted for the University requirement.

6) After achieving Upper Division status, the student may petition to have a different major ensemble substituted for the designated principal ensemble. The petition must be made prior to the ensemble auditions for the semester during which the substitution will take place. Petitions for Fall semester substitutions will be due by April 21st of the preceding semester. Petitions for Spring semester substitutions will be due by October 21st of the preceding semester. The petition will be considered by the Ensemble Directors’ Committee, and the student will be notified of the committee’s decision prior to ensemble auditions.

Note: Substitution for principal ensembles is considered an exception to the guidelines for ensemble participation. Petitions must be submitted for each semester of substitution.

7) Wind brass percussion principals enrolled in the Bachelor of Music (Pre-Certification-Instrumental) or Bachelor of Music in Music Education degree programs are required to fulfill two years of ensemble performance in the Marching Band. Entering students will be expected to fulfill this requirement during the freshman and sophomore years. Transfer students will be required to fulfill a minimum of one year. A second year may be required based upon evaluation of the transcript. Woodwind, brass and percussion principals are also recommended to complete one semester of a major jazz ensemble.

Major ensembles: The following ensembles are designated as major ensembles with students eligible for one (1) hour of credit for participation. They are open to all qualified students of the University after consultation with the director.

• Black Diamond Choir
• Collegiate Chorale
• Community Band
• Concert Band
• Jazz Ensemble
• Jazz Lab
• Jazz Repertory Ensemble
• New Music Ensemble
• Early Music Ensemble
• Marching Band (Fall only)
• Opera Theatre
• Pep Band (Spring only)
• Singing Cardsmen
• Symphony Orchestra
• Symphonic Band
• University Chorus
• Vocal Jazz Ensembles
The grade will be determined as follows:

- Attend 12 or more = S (Satisfactory)
- Attend 9-11 = I (Incomplete)
- Attend less than 9 = U ( Unsatisfactory)

The grade of I (Incomplete) must be made up the following semester by attending double the number of recitals/concerts missed to attain the grade of S. If the Incomplete is not made up the following semester, the Incomplete will lapse to the grade of U and the entire semester of Recital Attendance must be repeated to earn the required credit. No petitions will be considered.

Designated recitals and concerts include the following:

- Thursday convocations—students may count a maximum of 7 (seven) Thursday convocations per semester toward their Recital Attendance requirement.
- Faculty recitals
- Senior or master’s degree recitals
- School of Music concerts given by the school’s major ensembles (Symphony Orchestra, Symphonic Band, Early Music Ensemble, Opera Theater, Collegiate Chorale, New Music Ensemble, Jazz Ensemble, Jazz Repertory Ensemble or Vocal Jazz Ensemble, Concert Band, Wind Symphony, Wind Ensemble, University Chorus)
- A maximum of four concerts given by the school’s minor ensembles (Piano/String/Woodwind/Brass/Chamber Ensembles, Jazz Combo, Clarinet/Flute/Guitar/Harp/Horn/Irish Music/Percussion/Historical Brass/Saxophone/TECHLA/Trombone/Trumpet/Tuba-Euphonium Ensembles, Community Band, Opera Workshop)
- Student composer concerts
- One musicale per semester sponsored by Delta Omicron
- One musicale per semester sponsored by Phi Mu Alpha
- Guest artist recitals
- New Music Festival

A minimum of 2 and maximum of 4 of the 12 required recital attendance credits must be obtained by attending live professional concerts outside those presented exclusively by University of Louisville faculty and students. These attendance credits may come from any of the following: Louisville Orchestra, Kentucky Opera, Louisville Ballet, Chamber Music Society of Louisville, Choral Arts Society, Kentucky Center Chamber Players, Hattie Bishop Speed Endowed Series, Ceruti Chamber Players, the Louisville Jazz Society, and all concerts for which the student music fee provides student tickets.

Students are also encouraged to attend other live professional concerts, including those outside the Louisville area, and performances given in conjunction with professional conferences such as ACDA, KMEA, CBDNA, CODA, and MTOUL. The instructor of record may approve credit for such concerts upon written request by the student or a faculty member.

In order to receive credit for these concerts, a student must submit a ticket stub (except in the case of a free concert) and program to the Instructor of Record for MUS 97. The student’s name and ID number must be clearly written on the ticket stub and program submitted, and the ticket stub and program must be submitted within one week of the performance date.

Students may not receive recital attendance credit for convocations or other performances in which they participate as a performer.

**Public Recitals**

School of Music students may schedule recitals any day when the recital halls are free and the building is open, provided they have the approval of their instructor and the necessary signatures of appropriate faculty for grading when applicable. Before a student schedules a recital, the
student must obtain a syllabus from the applied teacher. The syllabus will outline the following steps:

**Guidelines for Senior and Graduate Performance Degree Recitals**

1. A completed Recital Reservation Form, along with payment of recital fees, must be submitted to the Facilities Coordinator, within two weeks of the time a recital date is tentatively reserved, or the date will be released. This form must include:
   a. The applied teacher's signature
   b. The names and signatures of all performers (except for composition recitals)
   c. The names and signatures of the recital committee.
   d. The specific repertoire.
      i. Performance and pedagogy degree recitals are expected to show the performer's musical maturity and versatility. A degree recital program must be approved by the student's applied instructor. Minimum recital lengths will be determined by the appropriate area faculty and indicated on all applied syllabi.
      ii. For composition degree recitals, all works must be by the student presenting the recital. Performance time must be a minimum of 50 minutes.
      iii. Practicums by Master of Music candidates in conducting must be a minimum of 30 minutes. In some cases, it may be necessary to consider a conducting practicum a cumulative effort including performances from more than one concert, with a minimum of 30 minutes of music.

2. The recital committee shall consist of a minimum of three faculty members:
   a. The student's applied teacher
   b. An additional faculty member from the student's applied area.
   c. A faculty member from a different concentration in either department.

   At least one member of a graduate recital committee must be a Senior Member of the Graduate Faculty. The committee will hear the recital and grade it.

3. Recital Approval Process:
   a. For performance and pedagogy degree recitals, a recital hearing will be required at least four weeks in advance of the recital date, to be heard by the applied teacher plus two other faculty members. The student, in consultation with the applied teacher, is responsible for arranging the hearing. The student must bring a Recital Hearing Form and a listing of the recital program to the hearing. After the hearing, the applied teacher will immediately submit the completed form to the Academic Counselor to confirm the recital date.
   b. For composition degree recitals, the student must show all scores and parts to the private teacher and one other composition faculty member, who will verify that all necessary materials are complete and of an acceptable quality for rehearsal and performance. This review committee must sign the Composition Recital Approval Form, which must include the names of all performers, at least four weeks in advance of the recital date. The student is responsible for obtaining the necessary signatures by the designated date, and the private teacher is responsible for submitting the form to the Academic Counselor to confirm the recital date.
   c. For conducting practicums, the hearing shall consist of attendance at rehearsal(s) of the ensemble(s) preparing the practicum by the applied teacher plus two other faculty members between one and three weeks in advance of the recital date. The student, in consultation with the applied teacher, is responsible for disseminating a rehearsal schedule to members of the hearing committee. The student must bring a Recital Hearing Form and a listing of the recital program to the rehearsal(s). After the hearing, the applied teacher will immediately submit the completed form to the Academic Counselor to confirm the recital date.

4. All students presenting degree recitals are required to write program notes, except students presenting junior recitals. Piano Pedagogy students using the lecture recital option may substitute an appropriate hand-out. For vocal works, the program must also include the original texts and English translations. Program notes must be reviewed at least five weeks before the recital date by the applied teacher and one other faculty member. The program notes must receive approval by both reviewers (on the Program Information Sheet) before being submitted for printing.

5. At least three weeks in advance of the recital date, the student must submit a completed Program Information Sheet, with the appropriate signatures, along with a complete recital program and approved program notes (including texts and translations for vocal works), to the Publications and Media Relations Office for printing. The student must submit the recital program and program notes electronically, in the format specified by the Publications and Media Relations office, along with a typed hard copy.

6. The student must be enrolled in applied lessons (or conducting seminar for conducting practicums) during the semester in which the recital is presented.

7. The student is guaranteed at least three hours of rehearsal in the appropriate recital hall.

**Guidelines for Instrumental and Piano Performance Junior Degree Recitals**

1. A junior recital for the Instrumental Performance degree should be approximately 30 minutes in length and include two or more works by different composers and represent a diversity of styles.

2. The recital committee shall consist of a minimum of three faculty members:
   a. The student's applied teacher
   b. An additional faculty member from the student's applied area.
   c. A faculty member who may be from the student's applied area or from an outside area.

3. A completed Recital Reservation Form, along with payment of recital fees, must be submitted to the Facilities Coordinator, within two weeks of the time a recital date is tentatively reserved, or the date will be released. This form must include:
   a. The applied teacher's signature
   b. The names and signatures of all performers
   c. The names and signatures of the recital committee, if one is required
   d. The specific repertoire

4. At least three weeks in advance of the recital, the student must:
   a. Submit a Recital Approval Form, signed by the applied teacher, to the Academic Counselor to confirm the date
   b. Submit a completed Program Information Sheet with the applied teacher's signature, along with a complete recital program, to the Publications and Media Relations Office, along with a typed hard copy.
5. If the student wishes to include program notes (not required for instrumental performance junior degree recitals), they must also be submitted electronically, along with a typed hard copy at least three weeks in advance of the recital. All program notes must be approved by the applied teacher.

6. The student must be enrolled in applied lessons during the semester in which the recital is presented.

7. The student is guaranteed at least three hours of rehearsal in the appropriate recital hall.

**Guidelines for Non-Degree Recitals**

1. A non-degree recital may be a full recital (performance time must be a minimum of 50 minutes) or a shared recital (each participant’s performance time must be a minimum of 25 minutes).

2. A completed Recital Reservation Form, along with payment of recital fees, must be submitted to the Facilities Coordinator within two weeks of the time a recital date is tentatively reserved, or the date will be released. This form must include:
   a. The applied teacher’s signature
   b. The names and signatures of all performers
   c. The specific repertoire.

3. At least three weeks in advance of the recital, the student must:
   a. Submit a Recital Approval Form, signed by the applied teacher, to the Academic Counselor to confirm the recital date
   b. Submit a completed Program Information Sheet with the applied teacher’s signature, along with a complete recital program, to the Publications and Media Relations Office for printing. The student must submit the recital program electronically in the format specified by the Publications and Media Relations Office, along with a typed hard copy.

4. If the student wishes to include program notes (not required for non-degree recitals), they must also be submitted electronically, along with a typed hard copy at least three weeks in advance of the recital. All program notes must be approved by the applied teacher.

5. The student must be enrolled in applied lessons during the semester in which the recital is presented.

6. The student is guaranteed at least three hours of rehearsal in the appropriate recital hall.

**Additional Guidelines For All Recitals**

1. A required recital of a minimum of 30 minutes of music may take the place of the jury at the end of the semester in which the recital is given. In semesters involving the Sophomore Exam, whether such substitution be allowed will be determined by the applied area.

2. Such recitals must be announced and open to the general public. Unless prior approval is granted by the faculty of the applied area, such recitals must be at the School of Music.

3. Students may refer to the Recital Guidelines Packets (http://louisville.edu/music/resources/current-students/recital-form-packets) (available online or in the Dean’s Office) for recital-related procedures including date/hall reservations, deadlines, hearing and recital committee personnel, and recital fees.

**Teaching**

Students wishing to teach should confer with their applied teacher.

Note: Teaching in the Music Building is strictly prohibited except under the auspices of the Community Music Program or collegiate programs of the School of Music.

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**Academic Bankruptcy & Forgiveness & Fresh Start**

Academic Bankruptcy and Forgiveness (http://louisville.edu/registrar/registration-information/bankruptcy) policies allow students who are returning to college after an absence of two or more years to request the adjustment of their records for one or more entire semesters of previous college work, provided certain criteria are met. View information on Academic Bankruptcy and Forgiveness (http://louisville.edu/registrar/registration-information/bankruptcy) and the new Fresh Start (http://louisville.edu/admissions/apply/transfer/admissions/app-resources/fresh-start) policy.

**M**

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- Music and New Media (Minor) (p. 433)
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- Music Jazz Performance (BM) (p. 317)
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- Music Theory (BM) (p. 328)
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- Music Vocal Performance (BM) (p. 336)
- Music, Jazz Studies (BA) (p. 319)

**School of Nursing**

Health Sciences Campus, K-Wing
555 South Floyd Street, Suite 3019
University of Louisville
Louisville, KY 40202
Phone: (502) 852-8300
Web: louisville.edu/nursing

**About the School of Nursing**

The University of Louisville’s School of Nursing is an essential partner of a research intensive academic health science center in a nationally recognized University serving a metropolitan community.

The School of Nursing is a community in which faculty, staff and students collaborate to promote excellence in the profession of nursing.
This is accomplished through research and scholarship that inform undergraduate and graduate education, support evidence-based practice and foster advances in nursing science. Students are prepared to demonstrate excellence in nursing science, practice and leadership in a variety of settings for the benefit of clients across the lifespan and to meet the evolving health care needs of society. As a citizen of the larger community, the emphasis of the School of Nursing is to address the complex health needs of diverse and dynamic populations through nursing education, research, scholarship and service.

**Structure**
As you enter our school lobby in the K building on the first floor, you will be welcomed into a renovated three-floor school occupied by very talented and dedicated nursing faculty, staff and students. The second floor includes two renovated classrooms and our Red and Black student lounge. Students can take advantage of wireless capability throughout the building.

The third floor is the administrative suite, undergraduate and practice faculty offices. It houses five clinical practice suites that use state-of-the-art technology to capture both video and audio student learning on high fidelity patient simulators and electronic health records. It is a site where graduate nurse practitioner students learn to conduct a thorough health assessment to better identify systemic diseases. These students are definitely job ready through digital and inter-professional learning.

The fourth floor houses a well-staffed Research Office through our graduate research assistants, a doctoral student lounge and offices for graduate faculty; those who work in this area are developing the school’s research engine in nursing care of disease management and life transitions. The top floor of the school includes a 155-seat auditorium created to provide a venue to broadcast throughout the state as well as national and regional nursing leaders’ presentations.

**Administration**
The complete and up-to-date list of Nursing School leadership is located on the Nursing website at louisville.edu/nursing.

**Faculty**
The complete and up-to-date list of faculty is located on the Nursing website at louisville.edu/nursing/directory.

**Advising Services**
The Office of Student Services (OSS) is available to assist students in planning their academic program and to provide students with information regarding policies, procedures, and general information. The office is located in Rooms 3063-3066 in the K Wing Building on the Health Science Campus. Office hours are 8:30 am to 5:00 pm Monday through Friday. The phone number is (502) 852-1196.

Additional advising office hours are available on the Belknap Campus during the fall and spring semesters. Advising offices are located in the HSC Advising/Studio Arts Bldg.

**Undergraduate Program Information**
The following links are to the Nursing BSN catalog pages listing degree requirements and Flight Plan information (http://louisville.edu/flightplan):

- Nursing BSN (Pre-Licensure Program) (p. 342)
- Nursing BSN (RN-BSN Program) (p. 341)

### About the Programs
Students admitted to the Upper Division of all BSN programs, will be required to meet specific conditions as outlined in their offer of admissions and acceptance.

### Clinical Requirements
Before beginning the first clinical course for any BSN program, students must be in compliance with the following clinical requirements:

- Valid RN license with no restrictions for students in RN-BSN program
- Submit documentation of CPR certification (Adult, Child and Infant).
- Submit proof of student nurse liability insurance coverage
- Submit required immunization records and proof of health insurance coverage to the Campus Health Services Office (call (502) 852-6446 for additional current information on requirements)
- Complete HIPAA training
- Submit proof of completion of Blood-borne Pathogen training
- Additional requirements of clinical agencies may be required
- Negative drug test screening
- Completion of a Medicaid approved Certified Nursing Assistant course.

Additional clinical compliance requirements are published in the School of Nursing Student Handbook. It is the student’s responsibility to read the catalog, student handbooks, and official notices (e.g., School of Nursing web page, Blackboard, mailings) to be informed about grades, credits, and requirements, and to abide by the regulations of the University of Louisville and the School of Nursing. This handbook is available to students upon admission to the Upper Division and is updated annually.

### Removal from Clinical
A student may not participate in clinical sections assigned to nursing units or small agencies where the student currently works or previously has worked for pay, or in which the student has been hospitalized, without permission from the appropriate instructor. Any student participating in a clinical section addressed by this policy may be removed from that section at the request of the agency or the instructor. Every effort will be made to accommodate the student in other clinical sections of the courses. A student who is unsafe in the clinical area may be dismissed from the program.

### Returning to Clinicals following an Absence
Students who are not enrolled in nursing clinical courses for two or more consecutive semesters will need to have an Administrative Program Review to determine their currency of content and skills prior to returning to the clinical setting. The program review will be conducted by the Dean’s designee.

### Health Services Fee
On April 26, 1999, the University of Louisville’s Board of Trustees approved a Health Services Fee. Every HSC student will be assessed the Health Services Fee each semester. Service provided by the fee:

- All pathogen exposure (TB and needle stick) to include outside labs, x-ray, and medications
- All visits to the Student Health Services

Mental Health Services Medications, lab, or X-ray costs that might be associated with these visits are not covered by the fee.
Clinical Laboratory Fee
The UofL Board of Trustees approved instructional and clinical fees for nursing courses numbered 300 and all upper division courses effective Fall 2012. The purpose of the fees is to support the maintenance and operational expenses associated with providing clinical instruction.

Transportation
Students are individually responsible for arranging their own transportation to the clinical sites or other outside clinical experiences. Absence from class or scheduled clinical experiences due to transportation problems is not acceptable. Carpool arrangements will not be part of the decision making process when clinical assignments are made.

Student Paper and Assignments
Student papers/assignments may be displayed as student examples for course files and accreditation purposes. Identifying student information will be removed in the event of such usage. Student work used for any other purposes will require permission from the student(s) prior to faculty use.

Technical Standards for Performance
Technical standards, distinguished from academic standards, consists of the minimum physical, cognitive, and emotional requirements for the full participation in the nursing educational programs. The nature of professional nursing education is to prepare practitioners to interact with clients and provide safe, competent nursing care. It is the responsibility of the faculty to regularly assess all individual student performance and abilities in relation to both the academic and technical standards of the program. Fitness for the profession will be based on an individualized assessment of the student’s abilities to achieve an array of competencies essential for safe nursing practice.

Physical attributes
Students must have functional use of the somatic senses and the senses of vision and hearing. Students must have the ability to observe through visual, auditory, and somatic senses. Students must have adequate motor capabilities to safely perform required diagnostic and therapeutic maneuvers and procedures.

Communication Skills
Students must possess basic communication skills upon which to base the development of client oriented professional communication.

Cognitive Functioning
Students must possess the cognitive abilities required to receive information, categorize, analyze, and manipulate data essential to the care of clients. Students must have the ability to make decisions quickly, and to function effectively on a regular and predictable schedule.

Social and Behavioral Functioning
Students must possess social patterns of behavior consistent with safe and ethical practice with individual clients, families and groups of people. Students must have the mental control to handle emotions that might affect practice performance.

Minimum Grade Requirements
Students must earn a grade of "C" or above in the following courses (or their equivalents):

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 257</td>
<td>Introduction to Microbiology - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 258</td>
<td>Introduction to Microbiology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemistry for Health Professionals - S</td>
<td>4</td>
</tr>
<tr>
<td>HSS 303</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>NURS 338</td>
<td>Lifespan Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 395</td>
<td>Nursing Pharmacotherapeutics</td>
<td>3</td>
</tr>
</tbody>
</table>

Anatomy and Physiology Completion Requirement
The School of Nursing highly recommends that students complete the two semesters of anatomy and physiology with a lab at the same institution prior to admission into the upper division curriculum (BIOL 260, BIOL 261, BIOL 262). Transfer courses must be officially evaluated and determined equivalent to the University of Louisville’s anatomy and physiology courses.

Student Grievance Policies
Representatives from administration and faculty serve on the School of Nursing’s BSN/MSN Academic Affairs Committee. This committee reviews academic policies related to undergraduate nursing students. Student representatives have full voting rights except on confidential matters involving other students; in these cases the student representatives are excused. Students wishing to petition a School of Nursing policy should contact an Academic Advisor concerning procedure, students’ rights and responsibilities, and appropriate steps to take for resolution within the unit. University of Louisville also has a Student Academic Grievance Policy designed to provide fair means of dealing with student complaints regarding a specific action or decision made by the faculty as a whole, a faculty member, or the unit. Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance which shall be processed in accordance with the Student Academic Grievance Procedure (p. 87) pursuant to The Redbook. (See University of Louisville Student Handbook for more information.)

Student Petitions
Any student wanting to be exempted from a School of Nursing policy should make an appointment with an academic advisor and, if necessary, to file a petition. The academic advisor will submit the request to the Dean or dean’s designee who will make the decision or determine if an appropriate undergraduate faculty committee should hear the petition.

After hearing the petition, the committee makes a recommendation to the dean, who makes the final decision. A student may not petition to a committee for a change of grade in a course. However, the student may petition to the Committee regarding the fairness in which a grade was calculated. The Committee does not have the authority to recommend grade changes.

Academic Dishonesty Policy
The term “academic dishonesty” means obtaining or seeking to obtain an unfair academic advantage for oneself or for any other student; it includes lying, cheating, stealing, or engaging in otherwise dishonest conduct in the course or related to any academic exercise (Code of Student Rights and Responsibilities, University of Louisville). According
to the Code of Student Rights and Responsibilities at the University of Louisville, academic dishonesty is prohibited at the University. Academic dishonesty is a serious offense because it diminishes the quality of scholarship, makes accurate evaluation of student progress impossible, and defrauds those in society who must ultimately depend upon the knowledge and integrity of the institution and its students and faculty. Academic dishonesty includes, but is not limited to, cheating, fabrication, falsification, plagiarism, multiple submission, and complicity in academic dishonesty (Code of Student Rights and Responsibilities).

After identifying suspected academic dishonesty occurring in any academic program at the University of Louisville School of Nursing, the following steps will be taken:

1. A meeting to discuss the suspected academic dishonesty will occur with the faculty member, the course coordinator/leader, and the student(s). This meeting should take place, if possible, within 10 working days after identification of the suspected academic dishonesty.

2. The faculty member in collaboration with the course coordinator/leader will provide a letter to the Dean or his/her designee, if possible, within five working days of completion of investigation of the academic dishonesty. The faculty member's letter shall include:
   a. A detailed description of the academic dishonesty;
   b. Copies of supportive material; and
   c. A recommendation commensurate with the seriousness and circumstances of the academic dishonesty.

3. The Dean or his/her designee will schedule a meeting with the involved parties prior to making a decision.

4. The Dean or his/her designee will respond in writing to the faculty member by accepting or modifying the recommendation, if possible, within five working days of receipt of the recommendation.

5. The Dean or his/her designee will send a letter to the student(s) regarding the outcomes of the investigation and/or consequences, if possible, within five working days of notifying the faculty member of his/her written recommendation. Copies of this letter will be sent to the student's Office of Student Services advisor and the Dean of the School of Nursing. The letter to the student(s) shall include a copy of this procedure.

All records and documents obtained, prepared or related to the investigation and disposition of a charge of academic dishonesty will be maintained in the student’s Office of Student Services file.

Disability Statement

Students with disabilities, who need reasonable modifications to successfully complete assignments and otherwise satisfy course criteria, are encouraged to meet with the instructor as early as possible to identify and plan specific accommodations. If determined necessary, students will be directed to the Disability Resource Center. Any identified modification(s) deemed necessary must be documented in writing by the Disability Resource Center and provided to the School of Nursing. The Disability Resource Center must re-evaluate and provide documentation each semester.

W

• Wellness Coaching (Minor) (p. 440)

School of Public Health and Information Sciences

Undergraduate Affairs
Studio Arts Bldg., Room 100
Louisville, KY 40292

Phone: (502) 852-3607
Email: publichealth@louisville.edu
Web: louisville.edu/sphis
Social: Facebook (https://www.facebook.com/SPHIS), Twitter (http://twitter.com/ulsphis), LinkedIn (http://www.linkedin.com/groups?gid=4451132&trk=hb_side_g)

About

The School of Public Health and Information Sciences officially reopened as a University of Louisville unit in September 2002. In December 2008, the school moved to its newly renovated home on East Gray Street across from the Louisville Metro Department of Public Health and Wellness.

The original School of Public Health at University of Louisville was formed in 1919, making it one of the first schools of public health in the United States. Funding for the development of the school came from a $30,000 contribution by the Kentucky State Board of Health. The school was housed on the third floor of the Kentucky Board of Health Building at the corner of 6th and Main Streets. The primary focus of the school was the training of health officers and public health nurses to deal with welfare work in poor communities. The school was deactivated in 1924.

The School of Public Health and Information Sciences is a distinctive school of public health, positioned to protect the public’s health in the 21st century by identifying emerging health threats and risks, monitoring health factors and status, understanding how people seek and respond to health information and preparing responses to events that can affect the public’s health.

While we embrace the traditional tasks and roles of public health specialists, we recognize that protecting the public’s health today requires much more. It requires a new approach that integrates how information about the public’s health is acquired, evaluated, acted on and disseminated, and how these affect the public and its health. It requires preparing our students for careers in the 21st century by using 21st century knowledge and techniques.
Public Health Administration
The complete and up-to-date list of the School of Public Health leadership is located on the Public Health website at louisville.edu/sphis/administration.

Faculty & Departmental Information
The complete and up-to-date list of faculty is located on the Public Health website at louisville.edu/sphis/directory.

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Online Bachelor’s Degrees

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• Communication (BS) (http://louisville.edu/online/programs/index/bachelors/bachelor-of-science-in-communication)
• Criminal Justice (BS) (http://louisville.edu/online/programs/index/bachelors/bachelor-of-science-in-criminal-justice)
• Nursing (RN-BSN) (http://louisville.edu/online/programs/index/bachelors/rn-to-bachelor-of-science-in-nursing)
• Organizational Leadership and Learning (BS) - multiple tracks (http://louisville.edu/online/programs/index/bachelors/bachelor-of-science-in-organizational-leadership-and-learning)
• Psychology (BA) (http://louisville.edu/online/programs/index/bachelors/bachelor-of-arts-in-psychology)
• Social Work (BSW) (http://louisville.edu/online/programs/index/bachelors/bachelor-of-social-work)
• Sociology (BA) (http://louisville.edu/online/programs/index/bachelors/bachelor-of-arts-in-sociology)
• Sport (http://louisville.edu/online/programs) Administration (BS) (http://louisville.edu/online/programs)
• Women’s and Gender Studies (BA) (http://louisville.edu/online/programs/index/bachelors/bachelor-of-arts-in-womens-and-gender-studies)

Online Undergraduate Certificate

• Geospatial Technologies, Applied (http://louisville.edu/online/programs)

Online Post-Baccalaureate Certificate

• Accounting (http://louisville.edu/online/programs/certificate-programs/accounting)

American Sign Language Interpreting Studies (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in American Sign Language Interpreting Studies (ASLIBS)

Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)
Department: Classical and Modern Languages (http://louisville.edu/modernlanguages)

Program Information

UofL’s American Sign Language Interpreting Studies (ASLIBS) program provides students the training needed to function as qualified interpreters. This includes learning ASL, understanding the basics of ASL linguistics, Deaf history and culture, and the fundamentals of the interpreting process. We emphasize communicative and cultural competency as well as critical thinking abilities that can be used in both academic and non-academic careers.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tr>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>Program/Major Requirements</td>
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<td>124</td>
</tr>
</tbody>
</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.
**Departmental Admission Requirements**

Admission to BS in ASLIS not automatic. Entry requires functional fluency in ASL and basic interpreting competencies; a minimum overall GPA of 2.25 and a minimum GPA of 3.0 in ASL and ITP courses. The final exam in ITP 220 also serves as part of the ASLIS screening process for entry into the major. Once accepted into the major, students need to work closely with their advisor. Seniors are required to complete roughly 450 hours in an advanced interpreting practicum. For more details, contact the Department.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>The following courses are required by the program and can satisfy the respective General Education Requirement:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITP 115</td>
<td>Heritage &amp; Culture of the Deaf - D1, SB</td>
<td></td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts &amp; Sciences Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Electives in Natural Sciences or Social Sciences at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>WR: two approved courses at the 300-level or above</td>
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<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
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<td>7</td>
</tr>
</tbody>
</table>

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITP 115</td>
<td>Heritage &amp; Culture of the Deaf - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>ITP 220</td>
<td>Processing Skills for Interpreters ¹</td>
<td>3</td>
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<tr>
<td>ITP 225</td>
<td>Introduction to Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>Core Courses</td>
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</tr>
<tr>
<td>ITP 210</td>
<td>Application of Fingerspelling and Number Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITP 310</td>
<td>Multiculturalism and Interpreting</td>
<td>2</td>
</tr>
<tr>
<td>ITP 320</td>
<td>English to ASL Interpreting I</td>
<td>3</td>
</tr>
<tr>
<td>ITP 325</td>
<td>ASL to English Interpreting I</td>
<td>3</td>
</tr>
<tr>
<td>ITP 337</td>
<td>Education of the Deaf and Hard of Hearing</td>
<td>3</td>
</tr>
<tr>
<td>ITP 350</td>
<td>Historical Perspectives on the Deaf Community - WR</td>
<td>3</td>
</tr>
<tr>
<td>ITP 370</td>
<td>Interpreting in Specialized Settings I</td>
<td>3</td>
</tr>
<tr>
<td>ITP 390</td>
<td>Linguistics and American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>ITP 420</td>
<td>English to ASL Interpreting II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP 495</td>
<td>Practicum in Interpreting II - CUE</td>
<td>10</td>
</tr>
</tbody>
</table>

1. Completion of the second semester of a single foreign language; hours will vary depending on the language taken.
2. In addition to courses counted toward General Education.
3. May be incorporated into the other degree requirements.
4. The final exam in ITP 220 is part of the ASLIS screening process, which determines a student's eligibility to enter the program in the following fall.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ASL 101</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>ITP 115</td>
<td>Heritage &amp; Culture of the Deaf - D1, SB</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**: 86
General Education: Cardinal Core Quantitative Reasoning - QR 3

Hours 13

Spring
ENGL 102 Intermediate College Writing - WC 3
ASL 102 American Sign Language II 3
ITP 337 Education of the Deaf and Hard of Hearing 3
General Education: Cardinal Core Arts & Humanities - AH 3
General Education: Cardinal Core Historical Perspective Global Diversity - SBHD2 3

Hours 15

Year 2
Fall
ASL 201 American Sign Language III 3
ITP 350 Historical Perspectives on the Deaf Community - WR 3
General Education: Cardinal Core Natural Science with Lab - B 4
General Education: Cardinal Core Oral Communication - OC 3
General Elective 3

Hours 16

Spring
ASL 202 American Sign Language IV 3
ITP 210 Application of Fingerspelling and Number Systems 3
ITP 220 Processing Skills for Interpreters 3
ITP 225 Introduction to Interpreting 3
General Education: Cardinal Core Natural Sciences - S 3
General Education: Cardinal Core Arts & Humanities - AH 3

Hours 18

Year 3
Fall
ASL 301 American Sign Language V 3
ITP 320 English to ASL Interpreting I 3
ITP 325 ASL to English Interpreting I 3
ITP 390 Linguistics and American Sign Language I 3
Natural Science or Social Science Elective (300 level or above) 3
Select one of the following: 3
HUM 591 Perspectives on Ancient Culture - WR
HUM 592 Perspectives on Medieval Culture - WR
HUM 593 Perspectives on Early Modern Culture - WR
HUM 594 Perspectives on Modern Culture - WR
HUM 595 Principles of Cultural History - WR
HUM 596 Selected Perspectives in Humanities - WR

Hours 20

Spring
ASL 302 American Sign Language VI 3
ITP 370 Interpreting in Specialized Settings I 3
ITP 420 English to ASL Interpreting II (with consent of instructor) 3
ITP 490 Linguistics and ASL II 3
Humanities Elective (non-ITP) (300 level or above) 3

Hours 15

Year 4
Fall
ASL 400 American Sign Language VII 3
ITP 425 ASL to English Interpreting II 3
ITP 430 Interpreting in Specialized Settings II 3
ITP 470 Practicum in Interpreting I 3

Hours 12

Spring
ASL 405 Advanced ASL 3
ITP 440 Advanced Simultaneous Interpretation 3
ITP 495 Practicum in Interpreting II - CUE 3

Hours 10

Natural Science or Social Science Elective (300 level or above) 3

Hours 15

Minimum Total Hours 124

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Anthropology (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Anthropology (ANTHBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Anthropology (http://louisville.edu/anthropology)

Program Information

The Anthropology major at the University of Louisville includes 200-level and 300-level courses in Archaeology, Biological Anthropology, and Cultural Anthropology; a Methods course in one sub-discipline; ANTH 475, which enables majors to apply Anthropology in real-world situations; and ANTH 508, the capstone course that provides a fundamental understanding of the ideas that underlie Anthropology.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>(<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td></td>
</tr>
</tbody>
</table>
College/School Requirements | 22
---|---
Program/Major Requirements | 68
Minimum Total Hours | 121

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the BA in Anthropology requires a minimum cumulative grade point average of 2.0.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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</tr>
<tr>
<td></td>
<td>The following courses are required by the program and can satisfy the respective General Education Requirement:</td>
<td></td>
</tr>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Biological Anthropology - S</td>
<td></td>
</tr>
<tr>
<td>or ANTH 207</td>
<td>Principles of Biological Anthropology - B</td>
<td></td>
</tr>
<tr>
<td>or ANTH 206</td>
<td>Principles of Archaeology - B</td>
<td></td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
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<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
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<td></td>
</tr>
</tbody>
</table>

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Biological Anthropology - S</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 207</td>
<td>Principles of Biological Anthropology - B</td>
<td></td>
</tr>
<tr>
<td>ANTH 204</td>
<td>Archaeology - D2, SB</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 206</td>
<td>Principles of Archaeology - B</td>
<td></td>
</tr>
<tr>
<td>ANTH 475</td>
<td>Engaged Anthropology - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 508</td>
<td>History of Anthropology - CUE, WR</td>
<td>3</td>
</tr>
</tbody>
</table>

Methods (Select one of the following): 3
- ANTH 509 Archaeological Theory and Methods - WR
- or ANTH 526 Archaeology as Practice
- ANTH 510 Methods in Biological Anthropology - WR
- or ANTH 512 Methods in Skeletal Forensics - WR
- ANTH 511 Ethnographic Methods - WR

Archaeology (select one of the following): 3
- ANTH 301 Archaeology of Sacred Sites
- ANTH 302 Underwater Archaeology
- ANTH 304 Prehistoric Archaeology Europe - SBH
- ANTH 311 Emergence of Human Culture - SBH
- ANTH 312 Rise of Civilization
- ANTH 316 Ancient Civilizations of Mesoamerica
- ANTH 322 Archaeology of North America - SBH
- ANTH 326 African Archaeology
- ANTH 328 Environmental Archaeology
- ANTH 329 Zoarchaeology
- ANTH 330 Urban and Historic Archaeology
- ANTH 377 Field Methods in Archaeology
- ANTH 378 Lithic Technology
- ANTH 379 Ceramic Analysis
- ANTH 526 Archaeology as Practice
- ANTH 529 Zooarchaeology
- ANTH 530 Human Impacts on Past Environments
- ANTH 578 Lithic Technology
- ANTH 579 Ceramic Analysis

Biological Anthropology (select one of the following): 3
- ANTH 303 Human Origins
- ANTH 305 Genes, Peoples and Evolution
- ANTH 306 Human Biological Variation
- ANTH 307 Darwin
- ANTH 308 Primates
- ANTH 327 Fundamentals of Skeletal Forensics
- ANTH 351 Medical Anthropology
- ANTH 353 Evolutionary Anthropology
- ANTH 354 Anthropology of Infectious Disease
- ANTH 410 Skeletal Forensics
- ANTH 535 Nutritional Anthropology
- ANTH 540 Health and Civilization
- ANTH 563 Special Topics in Biological Anthropology

Cultural Anthropology (select one of the following): 3
- ANTH 309 Sex, Gender and Culture
- ANTH 310 Race, Culture, Identity
- ANTH 313 Studies in Ethnomusicology - D2, SB
- ANTH 314 Introduction to Japanese Society - D2, SB
- ANTH 315 The Anthropology of Europe - SB
- ANTH 317 Anthropology of China - D2, SB
- ANTH 318 African-American Cultural Traditions
- ANTH 319 Cultures of the Middle East
- ANTH 320 Indians of North America - D1, SBH
- ANTH 321 American Indian Women
- ANTH 323 Cultures of Africa - D2, SB
**Anthropology Electives**

Select three courses from any elective category above or from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 361</td>
<td>Special Topics in Anthropology</td>
</tr>
<tr>
<td>ANTH 401</td>
<td>Cooperative Internship in Anthropology</td>
</tr>
<tr>
<td>ANTH 430</td>
<td>Practicum in Anthropology Education</td>
</tr>
<tr>
<td>ANTH 450</td>
<td>Readings and Research</td>
</tr>
<tr>
<td>ANTH 451</td>
<td>Independent Study</td>
</tr>
<tr>
<td>ANTH 499</td>
<td>Senior Honors Thesis</td>
</tr>
<tr>
<td>ANTH 528</td>
<td>Animals and Humans</td>
</tr>
<tr>
<td>ANTH 531</td>
<td>Anthropology of Water</td>
</tr>
</tbody>
</table>

**Supporting Courses**

Electives in the Social Sciences, Natural Sciences, and Humanities (other than Anthropology) 21

Minimum Electives 5 9-11

Minimum Total Hours 68

Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 475</td>
<td>Engaged Anthropology - CUE</td>
</tr>
<tr>
<td>ANTH 508</td>
<td>History of Anthropology - CUE, WR</td>
</tr>
</tbody>
</table>

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 475</td>
<td>Engaged Anthropology - CUE</td>
</tr>
<tr>
<td>ANTH 508</td>
<td>History of Anthropology - CUE, WR</td>
</tr>
</tbody>
</table>

1 Completion of the intermediate level of a single foreign language
2 In addition to courses counted toward General Education; 6 hours must be at 300 level or above

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Qualitative Reasoning - QR</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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</tbody>
</table>

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective (not Anthropology)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Biological Anthropology - S</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 207</td>
<td>or Principles of Biological Anthropology - B</td>
<td></td>
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</tbody>
</table>

**Year 2**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language 1</td>
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<td>4</td>
</tr>
<tr>
<td>ANTH 204</td>
<td>Archaeology - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>or ANTH 206</td>
<td>or Principles of Archaeology - B</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
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<td>3</td>
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</table>

**Year 3**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Foreign Language 3</td>
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<td>4</td>
</tr>
<tr>
<td>Social Science Elective (not Anthropology) (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective (not Anthropology) (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Anthropology Archaeology Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Anthropology Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 475</td>
<td>Engaged Anthropology - CUE</td>
<td>3</td>
</tr>
</tbody>
</table>

3 May be incorporated into other degree requirements
4 15 hours must be at the 300-level or above.
5 Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
### Program Information

The Bachelor of Arts (BA) in Art program is a mixed-media degree primarily intended for art students who wish to receive a broad experience in studio practice within the context of a liberal arts education.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>68</td>
</tr>
</tbody>
</table>

#### Minimum Total Hours: 121

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

### Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements

All students wishing to major in the Department of Fine Arts specializing in studio art must complete and submit a separate “Application for Admission” to the department. Admission is selective and enrollments may be limited. Studio art courses may be restricted to majors only. Enrolled University of Louisville students may obtain an application and apply through the department’s offices. Incoming and transfer students must be accepted by the University first, and then apply for admission to the department. Students are expected to meet the minimum overall grade point standards for the College of Arts & Sciences. In addition, a grade of D in any department course at the 300 level or above may not be used to fulfill a departmental requirement.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- Two of the following:
  - ARTH 250 Ancient Through Medieval Art - AH
  - ARTH 270 Renaissance Through Modern Art - AH
  - ARTH 290 Survey of Asian Art - AH, D2

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.*
### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Electives in Natural Sciences or Social Sciences</td>
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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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**Minimum Total Hours**: 22

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ART 105</td>
<td>Foundation 2-D Design</td>
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<tr>
<td>ART 106</td>
<td>Foundation 3-D Design</td>
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<tr>
<td>ART 107</td>
<td>Foundation Drawing</td>
<td>3</td>
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<tr>
<td>ART 206</td>
<td>Foundation Art Concepts and Methods</td>
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<td>ART 207</td>
<td>Foundation Figure Drawing</td>
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<tr>
<td>ARTH 250</td>
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<tr>
<td>ARTH 270</td>
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<tr>
<td>ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
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<tr>
<td>Art History elective at the 300 level or above</td>
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<tr>
<td>ART 301</td>
<td>Introduction to Painting</td>
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<tr>
<td>ART 305</td>
<td>Drawing and Composition</td>
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</tr>
<tr>
<td>ART 311</td>
<td>Introduction to Glassmaking Techniques</td>
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</tr>
<tr>
<td>ART 321</td>
<td>Introduction to Sculpture</td>
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</tr>
<tr>
<td>ART 331</td>
<td>Introduction to Clay</td>
<td></td>
</tr>
<tr>
<td>ART 341</td>
<td>Introduction to Printmaking</td>
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<td>ART 351</td>
<td>Introduction to Black and White Photography</td>
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</tr>
<tr>
<td>ART 361</td>
<td>Introduction to Interior Design</td>
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</tr>
<tr>
<td>ART 381</td>
<td>Introduction to Fiber/Mixed Media</td>
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<tr>
<td>ART 383</td>
<td>Papermaking</td>
<td></td>
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<tr>
<td>ART 385</td>
<td>Introduction to Book Arts</td>
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<tr>
<td>ART 390</td>
<td>Special Problems in Studio Art</td>
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<tr>
<td>ART 599</td>
<td>Studio Art Undergraduate Capstone Seminar - CUE</td>
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**Electives in Art at the 500 level**: 6

### Supporting Courses

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
<td></td>
</tr>
<tr>
<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
<td></td>
</tr>
<tr>
<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
<td></td>
</tr>
<tr>
<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
<td></td>
</tr>
<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
<td></td>
</tr>
</tbody>
</table>

**Electives in Humanities disciplines, other than Art or Art History, at the 300 level or above**: 15

**Minimum Electives**: 5

**Minimum Total Hours**: 68

### Note

- A grade of C-minus or better is required in all 300-level and 500-level courses in the major.
- Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.
- At least 50 of the total minimum hours required must be at the 300 level or above.

### Culminating Undergraduate Experience

- Requirement fulfilled by completing:
  - ART 599 Studio Art Undergraduate Capstone Seminar - CUE

### Flight Pan

#### Year 1

**Fall**

- GEN 100 or GEN 101 Student Success Center Orientation or Arts and Sciences Orientation | 1 |
- ENGL 101 Introduction to College Writing - WC | 3 |
- Select one of the following: | 3 |
- ARTH 250 Ancient Through Medieval Art - AH | 4 |
- ARTH 270 Renaissance Through Modern Art - AH | 4 |
- ARTH 290 Survey of Asian Art - AH, D2 | 4 |
- General Elective | 3 |
- Electives in Art at the 500 level | 6 |
- Hours | 14 |

**Spring**

- General Education: Cardinal Core Natural Sciences - S | 3 |
- General Education: Cardinal Core Natural Sciences Lab - SL | 1 |
- Hours | 15 |

#### Year 2

**Fall**

- Select one of the following: | 3 |
- ARTH 250 Ancient Through Medieval Art - AH | 4 |
- ARTH 270 Renaissance Through Modern Art - AH | 4 |
- ARTH 290 Survey of Asian Art - AH, D2 | 4 |
- Art Elective (300 level) | 3 |
- General Education: Cardinal Core Oral Communication - OC | 3 |
- Foreign Language 1 | 4 |
- General Elective | 3 |
- Hours | 16 |

**Spring**

- General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SB1 | 3 |
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH | 3 |
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Ancient Through Medieval Art - AH</td>
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<tr>
<td>ARTH 270</td>
<td>Renaissance Through Modern Art - AH</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
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<td>Art Elective (300 level)</td>
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<tr>
<td>Foreign Language 2</td>
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### Year 3

#### Fall

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<tbody>
<tr>
<td>Art Elective (300 level)</td>
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<tr>
<td>Art History Elective (300 level)</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<tr>
<td>Foreign Language 3</td>
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<tr>
<td>General Elective</td>
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#### Spring

<table>
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<tr>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WR Course (300 level or above)</td>
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<tr>
<td>Art Elective (300 level)</td>
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</tr>
<tr>
<td>Social Science or Natural Science Elective (300 level or above)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (300 level or above)</td>
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<tr>
<td>General Elective</td>
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### Year 4

#### Fall

<table>
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<tr>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Art Elective (500 level)</td>
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</tr>
<tr>
<td>Humanities Elective (300 level or above)</td>
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</tr>
<tr>
<td>Humanities Elective (300 level or above)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science or Natural Science Elective (300 level or above)</td>
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</tr>
<tr>
<td>General Elective (300 level or above)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Spring

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Elective (500 level)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (300 level or above)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science or Natural Science Elective (300 level or above)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (300 level or above)</td>
<td>3</td>
</tr>
<tr>
<td>ART 599 Studio Art Undergraduate Capstone Seminar - CUE</td>
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</tbody>
</table>

Minimum Total Hours: 16

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

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**Art - Fine Art (BFA)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Fine Arts in Art (ART BFA)**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Fine Arts (http://louisville.edu/art)

**Program Information**

The Department of Fine Arts and the Hite Art Institute offers the Bachelor of Fine Arts (BFA) degree, which is primarily intended for professionally oriented art students and those planning to pursue graduate work in studio arts. The BFA provides the opportunity for students to go into more depth in a chosen area. There are four tracks in the BFA Program:

- **2D Studios** (http://louisville.edu/art/Undergraduate/bfa-in-art-or-design/bfa-2d-studios)  
  Drawing, Painting, Photography, Printmaking
- **3D Studios** (http://louisville.edu/art/Undergraduate/bfa-in-art-or-design/bfa-3d-studios)  
  Ceramics, Fiber Arts/Mixed Media, Glass, Sculpture
- **Graphic Design** (http://louisville.edu/art/Undergraduate/bfa-in-art-or-design/cad.html)
- **Interior Design** (http://louisville.edu/art/Undergraduate/bfa-in-art-or-design/bfa-in-interior-design)

The 2D and 3D Studio tracks allow students to customize their degree to either focus primarily on a specific studio area or to work cross-media taking courses in several studio areas:

- Graphic Design (http://louisville.edu/art/Undergraduate/bfa-in-art-or-design/cad.html)
- Interior Design (http://louisville.edu/art/Undergraduate/bfa-in-art-or-design/bfa-in-interior-design)

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

**Degree Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
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<td>10</td>
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<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>47-67</td>
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</table>
Departmental Admission Requirements

The BFA degree is primarily intended for professionally oriented art students and for those planning to pursue graduate work in the studio arts.

Admission is selective, and enrollments may be limited. Enrolled University of Louisville students may apply for admission to the BFA program upon completion of the Foundation Program and the introductory course to the area of track, with a minimum grade point average of 3.0 in department (studio art and art history) courses and a cumulative grade point average of 2.25. Once admitted, students must maintain an overall grade point average of 2.25 or above and a 3.0 or above in department courses to remain enrolled in the BFA program.

Students who do not meet the GPA requirements will be placed on departmental probation and given one semester in which to raise their GPA. If unable to meet the GPA requirements within that time frame, students will be returned to the BA program in Studio Art. If removed, students may reapply to the BFA program once the GPA requirements have been met.

Upon admission to the BFA Program, students and faculty will complete and sign a BFA Student/Mentor Contract outlining the progress expected toward completion of the degree. If at any point during the student’s study the mentor deems the student’s progress and/or ability to meet his/her obligations as a student in the BFA program unsatisfactory that mentor has the right to resign his/her post as mentor. In this instance a student must seek another mentor or transfer back into the BA program in Studio Art. If a student requests a different mentor and no faculty mentor has the right to resign his/her post as mentor. In this instance a student must seek another mentor or transfer back into the BA program in Studio Art. If removed, students may reapply to the BFA program once the GPA requirements have been met.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For the BFA candidate in 2D or 3D studios, this includes a committee review of the candidate’s work one semester prior to graduation and participation in the BFA exhibition held during the semester of graduation. For the BFA candidate in Graphic Design or Interior Design, this includes participation in the professional portfolio review at the end of their professional practice course.

General Education Requirements

The following courses are required by the program and satisfy the respective General Education Requirement(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 250</td>
<td>Ancient Through Medieval Art - AH</td>
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</tr>
<tr>
<td>or ARTH 270</td>
<td>Renaissance Through Modern Art - AH</td>
<td></td>
</tr>
<tr>
<td>or ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td></td>
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</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

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<th>Hours</th>
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<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
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</table>

Minimum Total Hours: 10

Program/Major Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ART 105</td>
<td>Foundation 2-D Design</td>
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<td>ART 106</td>
<td>Foundation 3-D Design</td>
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<td>ART 107</td>
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<tr>
<td>ART 205</td>
<td>Foundation Design Methods</td>
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</tr>
<tr>
<td>ART 206</td>
<td>Foundation Art Concepts and Methods</td>
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<td>ART 207</td>
<td>Foundation Figure Drawing</td>
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</tr>
<tr>
<td>ARTH 270</td>
<td>Renaissance Through Modern Art - AH</td>
<td></td>
</tr>
<tr>
<td>ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
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</tr>
<tr>
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<tr>
<td>Studio Art electives at the 300 level</td>
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<td>Studio Art Track</td>
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<tr>
<td>Minimum electives in Studio Art or Art History at the 300 level or above</td>
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Supporting Courses

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<th>Hours</th>
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<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
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<td>Perspectives on Medieval Culture - WR</td>
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<td></td>
</tr>
<tr>
<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
<td></td>
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<tr>
<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
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</tr>
<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
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</tr>
<tr>
<td>Electives in Humanities disciplines, other than Art or Art History, at the 300 level or above</td>
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</table>

Minimum Electives: 2-4

Minimum Total Hours: 83-80

General Education Requirements

<table>
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<tr>
<th>Code</th>
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<th>Hours</th>
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<tr>
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<td>31</td>
<td></td>
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</table>
60 hours minimum Art/Art History total for Interior Design and Graphic Design tracks; 61 hours minimum total for 2D Studios and 3D Studios tracks. At least 50 of the total minimum hours required must be at the 300 level or above.

A grade of C- or better is required in all 300 and 500-level courses in the major.

In addition to courses counting towards General Education; 6 hours must be at 300 level or above.

May be incorporated into other degree requirements.

Students planning to study Graphic Design must take ART 205. Students planning to study Interior Design may select from ART 205 or ART 206.

Students planning to study Interior Design may select from ART 205 or ART 206. Students planning to study 2D Studios or 3D Studios may select from ART 206 or ART 207.

Students planning to study 2D Studios or 3D Studios may select from ART 206 or ART 207.

Fulfills General Education AH requirement.

BFA Graphic Design students must take ARTH 301 and a 300-level elective. BFA Interior Design students must take ARTH 347. BFA 2D Studios and 3D Studios must take 6 elective hours at the 300-level.

BFA Graphic Design students must take ART 361 and ART 362; BFA Graphic Design students must take ART 371 and a 300-level elective. BFA 2D Studios and 3D Studios must take 6 elective hours at the 300-level.

BFA Graphic Design and BFA Interior Design students may have elective hours. Students who fulfill general education requirements with courses in the major or supporting courses may have electives. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements may need to be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements may require additional hours to complete the degree requirements or decrease the listed electives.

**Track Requirements**

**Track in Interior Design (ART BFAIAR)**

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ART 560</td>
<td>Sustainable Design</td>
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<td>ART 561</td>
<td>Interior Design Studio I</td>
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<tr>
<td>ART 562</td>
<td>Interior Design Studio II</td>
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<tr>
<td>ART 563</td>
<td>Interior Design Studio III</td>
<td>3</td>
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<tr>
<td>ART 564</td>
<td>Interior Design Studio IV</td>
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<tr>
<td>ART 565</td>
<td>Directed Projects in Interior Design</td>
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<table>
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<tr>
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<tr>
<td>ART 566</td>
<td>Interiors Construction</td>
<td>3</td>
</tr>
<tr>
<td>ART 567</td>
<td>Interior Finishes</td>
<td>3</td>
</tr>
<tr>
<td>ART 568</td>
<td>Building Systems</td>
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**Track in Graphic Design (ART BFACOA)**

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**Electives in Graphic Design**

Select two of the following:

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**Electives in Studio Art or Art History**

Minimum Total Hours 30

**Track in 2-D Studios (ART BFA2DS)**

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Track in 3-D Studios (ART BFA3DS)

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Minimum Total Hours 16

Flight Plan

Track in 2D Studio

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Winter 14

Spring

| ENGL 102  | Intermediate College Writing - WC | 3    |
| General Education: Cardinal Core Quantitative Reasoning - QR | 3    |
| ART 105   | Foundation 2-D Design            | 3    |
| or ART 106 | or Foundation 3-D Design         |       |
| Select one of the following: | | 3 |
| ART 206   | Foundation Art Concepts and Methods |       |
| ART 207   | Foundation Figure Drawing        |       |
| Select one of the following: | | 3 |
| ARTH 250  | Ancient Through Medieval Art - AH |       |
| ARTH 270  | Renaissance Through Modern Art - AH | |
| ARTH 290  | Survey of Asian Art - AH, D2     |       |

Minimum Total Hours 15

Year 2

Fall

| General Education: Cardinal Core Natural Sciences - S | 3    |
| General Education: Cardinal Core Oral Communication - OC | 3    |

Minimum Total Hours 16

Year 3

Fall

| General Education: Cardinal Core Natural Sciences - S | 3    |

General Elective 3

Spring

| General Education: Cardinal Core Natural Sciences - S | 3    |

General Elective 3

Year 4

Fall

| General Education: Cardinal Core Natural Sciences - S | 3    |
| General Education: Cardinal Core Oral Communication - OC | 3    |
| Select one of the following: | | 3 |
| HUM 591  | Perspectives on Ancient Culture - WR | |
| HUM 592  | Perspectives on Medieval Culture - WR | |
| HUM 593  | Perspectives on Early Modern Culture - WR | |
| HUM 594  | Perspectives on Modern Culture - WR | |
| HUM 595  | Principles of Cultural History - WR | |
| HUM 596  | Selected Perspectives in Humanities - WR | |
| Humanities elective (300 level or above) | 3    |

Minimum Total Hours 16

Spring

| General Education: Cardinal Core Natural Sciences - S | 3    |
| General Education: Cardinal Core Oral Communication - OC | 3    |
| Select one of the following: | | 3 |
| HUM 591  | Perspectives on Ancient Culture - WR | |
| HUM 592  | Perspectives on Medieval Culture - WR | |
| HUM 593  | Perspectives on Early Modern Culture - WR | |
| HUM 594  | Perspectives on Modern Culture - WR | |
| HUM 595  | Principles of Cultural History - WR | |
| HUM 596  | Selected Perspectives in Humanities - WR | |
| Humanities elective (300 level or above) | 3    |

Minimum Total Hours 16
Track in 3D Studio

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<tr>
<td><strong>Year 2</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td></td>
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<tr>
<td>ART 361</td>
<td>Introduction to Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences US Diversity - SBD1</td>
<td>3</td>
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<tr>
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</tr>
<tr>
<td>ART 250</td>
<td>Ancient Through Medieval Art - AH</td>
<td>3</td>
</tr>
<tr>
<td>or ART 270</td>
<td>Renaissance Through Modern Art - AH</td>
<td></td>
</tr>
<tr>
<td>or ART 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>General Elective</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>SOCIAL SCIENCE OR NATURAL SCIENCE ELECTIVE (300 LEVEL OR ABOVE)</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
<td></td>
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<tr>
<td>ART 561</td>
<td>Interior Design Studio I</td>
<td>3</td>
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<tr>
<td>or ART 562</td>
<td>or Interior Design Studio II</td>
<td></td>
</tr>
<tr>
<td>ART 362</td>
<td>Color Theory and Human Factors in Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>or ART 566</td>
<td>or Interiors Construction</td>
<td></td>
</tr>
<tr>
<td>or ART 568</td>
<td>or Building Systems</td>
<td></td>
</tr>
<tr>
<td>Social Science or Natural Science elective</td>
<td>3</td>
<td></td>
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<tr>
<td>Humanities elective (300 level or above)</td>
<td>3</td>
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<tr>
<td><strong>Year 4</strong></td>
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<td><strong>Fall</strong></td>
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<td>General Elective</td>
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<td>General Elective</td>
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<td>General Elective</td>
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<tr>
<td>ART 564</td>
<td>Interior Design Studio IV</td>
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<td>Humanities elective (300 level or above)</td>
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<td>ART 560</td>
<td>Sustainable Design</td>
<td>3</td>
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<tr>
<td><strong>Spring</strong></td>
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<td></td>
</tr>
<tr>
<td>ART 596</td>
<td>Professional Development in Interior Design - CUE</td>
<td>3</td>
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</tbody>
</table>
ART 565  Directed Projects in Interior Design  3
Humanities elective (300 level or above)  3
Select one of the following:  3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
</tr>
<tr>
<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
</tr>
<tr>
<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
</tr>
<tr>
<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
</tr>
<tr>
<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
</tr>
<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
</tr>
</tbody>
</table>

Social Science or Natural Science elective (300 level or above)  3

Hours  15

Minimum Total Hours  121

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Art History (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Art History (ARTHBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Fine Art (http://louisville.edu/art/s) (http://louisville.edu/art)

Program Information
The Department of Fine Arts offers the Bachelor of Arts (BA) in Art History. Art History introduces students to the history and appreciation of the visual arts. The Art History BA provides students with an in-depth understanding of the history of art, architecture, and visual culture—their production, circulation, and reception—while teaching them to interrogate visuality more broadly.

For the undergraduate wishing to major in Art History, the program provides study in the areas of:

- Ancient
- Medieval, Byzantine, Islamic
- Renaissance, Baroque
- Modern, Contemporary Western
- Asian and Non-western art and architecture

Courses are also offered in curatorial studies, historic interiors, the history of drawing and prints, the history of photography, and the history of graphic design.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>68</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>121</td>
<td></td>
</tr>
</tbody>
</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA/MA in Art History
Art History majors who are considering pursuing a master's degree (MA) in Art History can speed up the process by applying some of their undergraduate credit hours toward a master's degree. Students accepted into the Accelerated BA/MA program take three 500-level courses (9 credit hours) as an undergraduate that apply toward both the bachelor's degree and the eventual master's degree.

Interested students should apply to the program during Junior year (i.e., when they have accumulated 60-90 hours of credit). Students must have at least a 3.0 university grade point average when they apply and must maintain a 3.0 once accepted. Once admitted to the accelerated BA/MA program, students are expected to maintain a full graduate load of 9 credit hours.

Once accepted into the program, students complete 9 hours of 500-level coursework during their final year of undergraduate studies. They then graduate with a bachelor's degree and move straight into the UofL MA program. Students in the accelerated program must meet all of the requirements for the MA, including completing at least 12 credit hours of their 31-hour program in 600-level courses.

Departmental Admission Requirements
All students wishing to major in Art History must complete and submit a separate Application for Admission form to the department. Enrolled University of Louisville students may obtain an application and apply through the department’s offices. Incoming and transfer students must
be accepted by the University first, and then apply for admission to the department.

**Accelerated BA/MA in Art History**

Interested students apply to the accelerated program no later than the end of Junior year (i.e., before completing 90 hours of credit). To be considered for admission, a student must:

- Have a minimum university GPA of 3.0
- Complete an application for admission to the graduate program
- Supply GRE scores, transcripts, a statement of purpose, writing sample, and two (2) letters of recommendation

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- ARTH 250 Ancient Through Medieval Art - AH
- ARTH 270 Renaissance Through Modern Art - AH
- ARTH 290 Survey of Asian Art - AH, D2

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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<tr>
<td>Foreign Language</td>
<td>12</td>
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</tr>
<tr>
<td>Electives in Natural Sciences or Social Sciences</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
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</tbody>
</table>

**Minimum Total Hours**

22

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Department of Fine Arts:</td>
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<tr>
<td>Select two of the following:</td>
<td>6</td>
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<tr>
<td>ARTH 250</td>
<td>Ancient Through Medieval Art - AH</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 270</td>
<td>Renaissance Through Modern Art - AH</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Period/Area Courses**

9

**Pre 1750**

Select one of the following:

- ARTH 345 History of Drawing and Prints
- ARTH 351 Greek Art and Architecture
- ARTH 353 Roman Art and Architecture
- ARTH 362 Early Medieval Art and Architecture - WR
- ARTH 363 Late Medieval Art and Architecture - WR
- ARTH 364 Byzantine Art & Architecture

**Two (2) 300+ electives in Art History**

6

**Two (2) 500-level electives in Art History**

6

**Supporting Courses**

Select one of the following:

- ARTH 367 Islamic Art and Architecture
- ARTH 371 Italian Renaissance I
- ARTH 372 Italian Renaissance II
- ARTH 373 Northern Renaissance Art
- ARTH 381 Baroque Art
- ARTH 551 Studies in Ancient Art
- ARTH 552 Ancient Painting
- ARTH 553 Ancient Cities
- ARTH 561 Studies in Medieval Art
- ARTH 571 Studies in Renaissance Art
- ARTH 574 History of Drawing and Prints
- ARTH 581 Studies in Baroque Art

**After 1750**

Select one of the following:

- ARTH 320 Twentieth-Century Art
- ARTH 321 Art 1900-1945
- ARTH 322 Pop Art & Fluxus
- ARTH 325 Art Since 1945
- ARTH 326 International Trends in Contemporary Art
- ARTH 343 African-American Art to 1920
- ARTH 344 African-American Art 1920 to Present
- ARTH 391 Nineteenth-Century Art
- ARTH 393 Nineteenth-Century Architecture
- ARTH 394 Twentieth-Century Architecture
- ARTH 395 American Art I
- ARTH 396 American Art II
- ARTH 397 History of Photography
- ARTH 398 History of Landscape Architecture
- ARTH 526 Studies in Contemporary Art
- ARTH 593 Studies in Modern Architecture
- ARTH 595 Studies in American Art
- ARTH 597 Studies in Photographic History

**Non-Western**

Select one of the following:

- ARTH 331 Chinese Art
- ARTH 335 Twentieth Century Chinese Artists and Architects - AH, D2
- ARTH 337 Eastern Asia Landscape Art
- ARTH 339 Architecture and Gardens in China and Japan
- ARTH 341 African Art: A Survey
- ARTH 365 Mexican Art and Architecture
- ARTH 531 Studies in Asian Art

**Two (2) 300+ electives in Art History**

6

**Two (2) 500-level electives in Art History**

6

**Supporting Courses**

Select one of the following:

- HUM 591 Perspectives on Ancient Culture - WR
- HUM 592 Perspectives on Medieval Culture - WR
- HUM 593 Perspectives on Early Modern Culture - WR
Courses in Humanities disciplines other than Art or Art History, at 300 level or above must be at the 300 level and 12 hours must be at the 500 level.

Minimum Electives 6
Minimum Total Hours 68

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

Courses in studio art are calculated in the 40 hours allowed for art history majors.

At least 50 of the total minimum hours required must be at the 300 level or above.

Students are expected to meet the minimum overall grade point standards for the College of Arts & Sciences. In addition, a grade of D in any department course at the 300 level or above may not be used to fulfill a departmental requirement. A grade of C-minus or better is required in all 300- and 500-level courses in the major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Culminating Undergraduate Experience (Graduation requirement)</td>
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<tr>
<td></td>
<td>Requirement fulfilled by completing:</td>
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</table>
| ARTH 550 | Art History Undergraduate Capstone Seminar - CUE | 3

1. Completion of the intermediate level of a single foreign language.
2. In addition to courses counted toward General Education, 6 hours must be at 300 level or above.
3. May be incorporated into other degree requirements.
4. Fulfills General Education requirement.
5. Students must select a minimum of one course from each of the following three periods. Of the total 33 hours in Art History, 15 hours must be at the 300 level and 12 hours must be at the 500 level.
6. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<tr>
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</tr>
<tr>
<td>GEN 100</td>
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</tr>
<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
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</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
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<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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<tr>
<td>Foreign Language 1</td>
<td>4</td>
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</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>ARTH 250</td>
<td>Ancient Through Medieval Art - AH</td>
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</tr>
<tr>
<td>ARTH 270</td>
<td>Renaissance Through Modern Art - AH</td>
<td></td>
</tr>
<tr>
<td>ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
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<tr>
<td>Hours</td>
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<th>Spring</th>
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<tbody>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AH D2</td>
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<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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<tr>
<td>Foreign Language 2</td>
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</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to
compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Asian Studies (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Asian Studies (ASST BA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Program: Asian Studies (http://louisville.edu/asianstudies)

Program Information

Asia is the home of 60 percent of the world's population. China and Japan are the second and third largest economies in the world, and India has also experienced very rapid economic growth in the last three decades. Asia has some of the world's most ancient civilizations in the world, such as the Chinese civilization and the Indian civilization.

The Bachelor of Arts in Asian Studies program at UofL is an undergraduate-level interdisciplinary program in the College of Arts and Sciences.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>College/School Requirements</td>
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Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AST 310</td>
<td>Introduction to Asian Studies</td>
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<tr>
<td>AST/CHST/M L 270</td>
<td>Chinese Contributions to the World - AH, D2</td>
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Asian Art, Literature and Culture

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARTH 339</td>
<td>Architecture and Gardens in China and Japan</td>
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Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AST/ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td>3</td>
</tr>
</tbody>
</table>
AST 330/ ARTH 335  Twentieth Century Chinese Artists and Architecture - AH, D2
AST/ARTH 331  Chinese Art
AST/CHST 351  Chinese Literature in Translation I - AH, D2
AST/ARTH 531  Studies in Asian Art
CHST 353  Chinese Literary Theory
CHST 361  Western Literature in China
HUM 369  Asian Theatre
Asian Philosophy, Religion and Culture 4
Choose one of the following:
AST 340/ HUM 341  South Asian Religious Thought and Culture - AH, D2
AST/CHST 341  Ethnicity and Religion in China
AST/HUM 343  East Asian Religious Thought and Culture - AH, D2
CHST 331  Chinese Culture and Tradition
HUM 218  Introduction to Eastern Religious Traditions - AH, D2
HUM 342  Eastern Mysticism
HUM 307  East Asian Cultures - AH, D2
HUM 314  Buddhist Scriptures
PHIL 315  Asian Philosophy - AH, D2
Asian History 4
Choose one of the following:
HIST 396  History of India
AST/HIST 397  Traditional China
AST/HIST 398  Modern China
AST/HIST 399  Modern Japan
HIST 561  U.S. and Vietnam - CUE, WR
HIST 584  Women in East Asian History
HIST 591  Civilizations of Ancient and Medieval India - CUE, WR
HIST 592  Civilizations of Modern India - CUE, WR
HIST 598  Nationalism and Modernity in East Asia
Asian Politics 4
Choose one of the following:
AST/ANTH 347  Global Capitalisms
AST/POLS 365  The People’s Republic of China - WR
AST/POLS 366  Politics of East Asia
AST/POLS 367  Politics and Government of Southeast Asia
AST 598  Nationalism and Modernity in East Asia
POLS 345  Russia and Eurasia - WR
POLS 362  Comparative Political Economy
Asian Popular Culture 4
Choose one of the following:
M L 271  Chinese Popular Culture - AH, D2
M L 310  Japanese Culture Through Film - AH, D2
M L 312  Japanese Popular Culture - AH, D2
Contemporary Asia 4
Choose one of the following:
AST/GEOG 308  Geography of China
AST 314  Introduction to Japanese Society - D2, SB
AST/GEOG 316  Geography of South Asia
AST/ANTH 317  Anthropology of China - D2, SB
AST 323  Doing Business in China
AST/CHST 333  Contemporary China
AST/CHST 335  China Through Film - AH, D2
Language Courses 5
Select one of the following sequences:
CHNS 301  Advanced Intermediate Chinese I & CHNS 302  Advanced Intermediate Chinese II
JAPN 301  Advanced Japanese I & JAPN 302  Advanced Japanese II
AST 495  Senior Seminar - CUE
One Asian Studies Humanities elective 6
One Asian Studies Social Science elective 7
Supporting Courses
Electives in Social Sciences, other than Asian Studies, at the 300-level or above
Minimum Electives 8
Minimum Total Hours 68
Consult your AST advisor about how independent study and topics courses (AST 491, AST 500, AST 501) count in your major.
Only 40 hours of courses designated Asian Studies may be applied toward the Bachelor of Arts degree.
At least 50 of the total minimum hours required must be at the 300 level or above.

Table: Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 495</td>
<td>Senior Seminar - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1. Completion of the intermediate level of a single foreign language.
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above.
3. May be incorporated into other degree requirements.
4. AST 390, AST 391, AST 500, AST 501 and CHST 313 are special topics courses. They may used to satisfy any area degree requirement depending on topic appropriateness with the program director's approval.
5. Other Asian languages may be substituted upon approval of the Director of the Asian Studies Program
6. Asian Studies Humanities electives include the following:
   AST 290/ARTH 290, AST 330/ARTH 335, AST 331/ARTH 331, ARTH 339, AST 270/CHST 270/M L 270, AST 323/CHST 323, CHST 313, CHST 331, AST 333/CHST 333, AST 335/CHST 335, AST 341/CHST 341, AST 351/CHST 351, CHST 353, CHST 361, HUM 218, HUM 307, AST 340/HUM 341, HUM 342, AST 343/HUM 343, HUM 369, AST 531/ARTH 531, M L 310, M L 313 (when topic is appropriate and approved by the program director).

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td>Fall</td>
<td>GEN 100 or GEN 101</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation 1</td>
</tr>
<tr>
<td></td>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC 3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Quantitative Reasoning - QR 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences - S 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences - SB 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHNS 101 or JAPN 101</td>
<td>Elementary Chinese I or Basic Japanese I 3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
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<tr>
<td></td>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC 3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences with Lab - B 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH 3</td>
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</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHNS 102 or JAPN 102</td>
<td>Elementary Chinese II or Basic Japanese II 3</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1 3</td>
<td></td>
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<td></td>
<td>CHNS 201 or JAPN 201</td>
<td>Intermediate Chinese I or Intermediate Japanese I 3</td>
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<tr>
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<td>AST 270</td>
<td>Chinese Contributions to the World - AH, D2 3</td>
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<td>General Elective 3</td>
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<tr>
<td></td>
<td>General Elective 3</td>
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</tr>
<tr>
<td><strong>Spring</strong></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Humanities or Natural Science Elective 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHNS 202 or JAPN 202</td>
<td>Intermediate Chinese II or Intermediate Japanese II 3</td>
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<td>AST 310</td>
<td>Introduction to Asian Studies 3</td>
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<tr>
<td></td>
<td>Asian Studies Area Elective 3</td>
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<td></td>
<td>General Elective 3</td>
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<tr>
<td><strong>Year 3</strong></td>
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</tr>
<tr>
<td>Fall</td>
<td>Humanities or Natural Science WR Elective (300 level or above) 3</td>
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<tr>
<td></td>
<td>Social Science Elective (not Asian Studies) (300 level or above) 3</td>
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<tr>
<td></td>
<td>Asian Studies Area Elective 3</td>
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<tr>
<td></td>
<td>Asian Studies Area Elective 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHNS 301 or JAPN 301</td>
<td>Advanced Intermediate Chinese I or Advanced Japanese I 3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities or Natural Science Elective (300 level or above) 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Science WR Elective (not Natural Science) (300 level or above) 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Asian Studies Area Elective 3</td>
<td></td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

### Atmospheric Science (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Atmospheric Science (ATMSBS)**

Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)
Department: Physics (http://louisville.edu/atmosphericscience) and Astronomy (http://louisville.edu/atmosphericscience)

### Program Information

Atmospheric Science is an ever-changing field that continues to grow in scope and knowledge.

There are several universities across the U.S. with undergraduate Atmospheric Science programs, but few with the Louisville area's various and ever-changing climate patterns. Louisville has seen snow on the ground one day—and 70 degrees the next; hurricane force winds; ice storm damage; major tornado outbreaks...along with everything in between. The rich weather history of Louisville makes UofL a perfect place to study the atmosphere and its processes.
The University of Louisville sits in the center of one of the densest populations of professional meteorologists in the world. The National Weather Service (NWS) Weather Forecast Office (WFO) in Louisville is just minutes away from campus, and affords students many volunteer internship and research opportunities. The United Parcel Service (UPS) has its global meteorology group based in Louisville, with a shadow program for students.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>75-77</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
</tr>
</tbody>
</table>

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements

There are no specific admission requirements for this degree plan.

The application for major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>The following courses are required by the program and can satisfy the respective General Education Requirement:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
</tr>
<tr>
<td></td>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
</tr>
<tr>
<td></td>
<td>MATH 205</td>
<td>Calculus I - QR</td>
</tr>
<tr>
<td></td>
<td>All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.</td>
<td></td>
</tr>
</tbody>
</table>

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>6-8</td>
</tr>
<tr>
<td></td>
<td>Electives in Humanities or Social Sciences at 300-level or above, in addition to Courses counted toward General Education</td>
<td>6</td>
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</table>

### Program/Major Requirements

#### Department of Physics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS/GEOS 220</td>
<td>Contemporary Issues in Meteorology - S</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Introduction to Weather Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 361</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 362</td>
<td>Physical Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 365</td>
<td>Mesoscale Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 465</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 466</td>
<td>Dynamic Meteorology II</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 355</td>
<td>Introduction to Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 469</td>
<td>Synoptic Meteorology - CUE</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 350</td>
<td>Differential Equations for the Physical Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CEE 470</td>
<td>Surface Water Hydrology</td>
<td>9</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>9</td>
</tr>
<tr>
<td>CHEM 441</td>
<td>Elements of Physical Chemistry</td>
<td>9</td>
</tr>
<tr>
<td>GEOS 363</td>
<td>Climate Science</td>
<td>9</td>
</tr>
<tr>
<td>GEOS 564</td>
<td>Hydrology</td>
<td>9</td>
</tr>
<tr>
<td>MATH 560</td>
<td>Statistical Data Analysis - WR</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 355</td>
<td>Optics</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 356</td>
<td>Optics Laboratory</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 390</td>
<td>Introductory Computational Physics</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 530</td>
<td>Thermal Physics</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 541</td>
<td>Electromagnetic Fields</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 545</td>
<td>Advanced Optics</td>
<td>9</td>
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<td>PHYS 546</td>
<td>Advanced Optics Lab</td>
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<tr>
<td>Minimum Electives</td>
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<td>Minimum Total Hours</td>
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</table>

 WR—two approved courses at the 300 level or above

Minimum Total Hours 13-15

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.
Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 469</td>
<td>Synoptic Meteorology - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1. Completion of the second semester of a single foreign language; hours will vary depending on the language taken.
2. May be incorporated into other degree requirements.
3. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
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<tr>
<td>Foreign Language 1</td>
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<td>GEOS 220</td>
<td>Contemporary Issues in Meteorology - S or PHYS 220</td>
<td>3</td>
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<tbody>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
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<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
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<td>Foreign Language 2</td>
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Year 2

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<tr>
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<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
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<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
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<tr>
<td>PHYS 360</td>
<td>Introduction to Weather Analysis</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<tr>
<td>General Elective</td>
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<tr>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>PHYS 361</td>
<td>Atmospheric Thermodynamics</td>
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</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences US Diversity - SBD1</td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<td>Supporting Course</td>
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Year 3

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</thead>
<tbody>
<tr>
<td>PHYS 362</td>
<td>Physical Meteorology</td>
<td>3</td>
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<tr>
<td>PHYS 350</td>
<td>Differential Equations for the Physical Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 465</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
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<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 355</td>
<td>Mesoscale Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 466</td>
<td>Dynamic Meteorology II</td>
<td>3</td>
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<tr>
<td>Supporting Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>total</td>
</tr>
</tbody>
</table>

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To create either report:

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2. Click on the Student Services tab.
3. Next, click on “View my Academic Advisement Report” to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on “Create a What-if Advisement Report.”

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Bioengineering (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).
Program Information

Bioengineering is a relatively new engineering discipline when compared to the long-standing traditions of other fields of engineering. A bioengineer uses traditional engineering skills and tools to analyze and solve problems in biology and medicine. Bioengineers interact with biologists, biochemists, physicians, physiologists, and therapists to design, develop and manufacture instruments, devices, and software, or to develop new procedures to solve clinical problems.

The Bachelor of Science in Bioengineering degree is designed to provide students with a rigorous education grounded in basic mathematics and sciences traditional to all engineering programs, but focuses additionally on chemistry, biology and physiology, and the opportunity to gain practical experience within the biomedical or bioengineering industry. In the early part of their academic program, students are exposed to fundamentals of engineering and design in mechanical and electrical engineering before proceeding to core Bioengineering classes.


Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>(19 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
<td></td>
<td>38</td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>78</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>128</td>
</tr>
</tbody>
</table>

1 Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 31 semester hours in Engineering Fundamentals. In addition, the student must be in overall good standing (university GPA ≥ 2.25).

Students specializing in Bioengineering will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Bioengineering – nine semesters in Departmental Studies to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree.

The Bachelor of Science and Master of Engineering programs are both accredited by the Engineering Accreditation Commission of ABET, www.abet.org (http://www.abet.org).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
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<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
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<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
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<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC 1,2</td>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC 1,2</td>
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<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
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<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
<td>1</td>
</tr>
<tr>
<td>COMM 112</td>
<td>Business and Professional Speaking - OC</td>
<td>1</td>
</tr>
<tr>
<td>COMM 115</td>
<td>Interpersonal Skills - OC</td>
<td>1</td>
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<tr>
<td>ENGR 151</td>
<td>Engineering Graphics Technology</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
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<tr>
<td>ENGR 205</td>
<td>Differential Equations for Engineering</td>
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</tr>
<tr>
<td>ENGR 330</td>
<td>Linear Algebra for Engineering</td>
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Select one of the following: 1

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<thead>
<tr>
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<tbody>
<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
<td>3</td>
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<tr>
<td>COMM 112</td>
<td>Business and Professional Speaking - OC</td>
<td>3</td>
</tr>
<tr>
<td>COMM 115</td>
<td>Interpersonal Skills - OC</td>
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</tr>
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</table>

141 University of Louisville

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>BE 101</td>
<td>Introduction to Bioengineering</td>
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<td>BE 288</td>
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<td>Biotransport Phenomena</td>
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<td>BE 322</td>
<td>Circuits and Devices for Bioengineers</td>
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<td>BE 340</td>
<td>Computational Methodologies in Bioengineering</td>
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<td>BE 354</td>
<td>Anatomy and Physiology</td>
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<td>BE 359</td>
<td>Cell and Molecular Biology for Bioengineers</td>
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<td>BE 360</td>
<td>Biomechanics Principles</td>
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<tr>
<td>BE 389</td>
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<tr>
<td>BE 420</td>
<td>Biosystems &amp; Signals</td>
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<td>BE 423</td>
<td>Bioengineering Measurements Laboratory</td>
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<tr>
<td>BE 430</td>
<td>Biosystems Controls</td>
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<tr>
<td>BE 450</td>
<td>Biometrics &amp; Biocompatibility</td>
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<tr>
<td>BE 489</td>
<td>Bioengineering Co-op Education III</td>
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<td>BE 491</td>
<td>Economics, Ethics &amp; FDA Regulations</td>
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<tr>
<td>BE 497</td>
<td>Bioengineering Design Project - CUE</td>
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</table>

Bioengineering Electives (select 9 credit hours from the following): 5

- BE 453 Introduction to Molecular Bioengineering
- BE 460 Biomechanics of Tissues and Organs
- BE 480 Biomedical Device Design
- BE 552 Introduction to Tissue Engineering
- BE 581 Advanced Computer Aided Design and Manufacturing for Bioengineers
- IE 430 Quality Control
- ME 422 Machine Design I
- BIOC 545 Biochemistry I
- BIOC 645 Advanced Biochemistry I
- CHEM 545 Biochemistry I
- CHEM 645 Advanced Biochemistry I
- BIOC 547 Biochemistry II
- BIOC 647 Advanced Biochemistry II
- CHEM 547 Biochemistry II
- CHEM 647 Advanced Biochemistry II

**Bioengineering Core**

- CHEM 202 General Chemistry II - S 3
- CHEM 208 Introduction to Chemical Analysis II - SL 1
- CHEM 209 Introduction to Chemical Analysis III 1

**Supporting Courses**

- BIOL 240 Unity of Life - S 3
- CEE 205 Mechanics I: Statics 3
- CHEM 341 Organic Chemistry I 3
- CHEM 343 Organic Chemistry Laboratory I 2
- IE 360 Probability and Statistics for Engineers 3
- ME 206 Mechanics II: Dynamics 3
- ME 251 Thermodynamics I 3
- PHYS 295 Introductory Laboratories I - SL 1
- PHYS 299 Introductory Electricity, Magnetism and Light 4

**Minimum Total Hours** 78

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities, Social &amp; Behavioral Sciences, or Social &amp; Behavioral Sciences Historical Perceptve US Diversity - AHDI, SBDO, or SBHDI</td>
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<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
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<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
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</tr>
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<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
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<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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<td>Introduction to Chemical Analysis II - SL</td>
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<tr>
<td>Summer</td>
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<td>CEE 205</td>
<td>Mechanics I: Statics</td>
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<tr>
<td>ENGR 151</td>
<td>Engineering Graphics Technology</td>
<td>1</td>
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</table>

1. This course is a General Education requirement for the program; see [http://louisville.edu/provost/ger/](http://louisville.edu/provost/ger/) for the listing, by academic year, of AH/D1/D2/SB/SH Electives which satisfy the University-wide General Education requirements. Note that the 12-hour total for the AH/D1/D2/SB/SH electives assumes the use of double counting of D1/D2 with another category.
2. Students completing ENGL 105 in lieu of ENGL 101 and ENGL 102 satisfy the General Education and Engineering Fundamentals requirements for Written Communication. However, an additional 3-hr Written Communication (WC) course is needed to satisfy program credit hour requirements. A current list of acceptable WC courses is at [louisville.edu/speed/academics/advising](http://louisville.edu/speed/academics/advising).
3. Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 31 semester hours in Engineering Fundamentals. In addition, the student must be in good standing with the university (university GPA ≥ 2.25).
4. A student is allowed to accumulate no more than two D+ or lower grades in BE prefixed courses (including BE approved elective courses) to graduate with a baccalaureate degree. If a student accumulates any D+ or lower grade, it is strongly recommended that the course be repeated to earn a better grade before proceeding to the next course in the sequence. If a student accumulates a third D+ or lower grade, the student is required to repeat the course to earn a better grade.
5. A maximum of 1 non-BE course can be taken as an elective. Students must meet all course prerequisites. The courses chosen to fulfill this elective requirement cannot be used to satisfy any other program or degree requirements.
6. Candidates for the Bachelor of Science degree must be in Good Standing (university GPA ≥ 2.25) and must attain a grade point average of at least 2.25 for all courses used to satisfy degree requirements.
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Biology (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Biology (BIO LABA)
Unit: College of Arts (http://www.louisville.edu/a-s) and Sciences (AS) Department: Biology (http://louisville.edu/biology)

Program Information

There are two undergraduate degree programs offered in the Biology Department, a Bachelor of Arts in Biology and a Bachelor of Science in Biology.

The BA degree is a more general degree than the BS. It is a liberal arts degree designed for those students who desire a broad education in a variety of disciplines. This degree requires more foreign language and social science and/or humanities courses than the BS degree. It is a good degree for students interested in taking a diversity of courses outside the sciences. This degree is also suitable for someone planning to be a teacher. A student planning on applying to professional schools can do so with this degree, as long as the student takes all the prerequisites for admission to the desired program.
Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>General Education Requirements</td>
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<tr>
<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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<td>Minimum Total Hours</td>
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1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA-BS/MS in Biology

Students who wish to pursue an accelerated non-thesis master’s degree in Biology (BA-BS/MS) will be allowed to apply up to nine (9) hours of coursework taken for graduate credit while enrolled as an undergraduate. An additional twenty-four (24) hours of graduate coursework will constitute the minimum number of credit hours for obtaining the non-thesis masters in the accelerated program.

Early Start Program (Jointly with the College of Education and Human Development)

The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 148 credits are required for the dual degrees: 121 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by discipline. Students enrolling in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Students. All interested students must submit an application to the College of Education and Human Development (CEHD) MAT program and meet the admission criteria.

Departmental Admission Requirements

Admission to the BA in Biology requires completion of BIOL 240, BIOL 242 and BIOL 244 with a grade of C or better; completion of MATH 111 with a grade of C or better OR placement into a mathematics course above the level of MATH 111 on the basis of either the University of Louisville mathematics placement examination or ACT/SAT score; and a minimum overall grade point average of 2.0.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tr>
<td>General Education Requirements</td>
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<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
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<tr>
<td>or BIOL 242</td>
<td>Diversity of Life</td>
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<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
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<tr>
<td>or CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
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<tr>
<td>or CHEM 202</td>
<td>General Chemistry II - S</td>
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<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
<td>9</td>
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<tr>
<td>or MATH 201</td>
<td>Calculus I - QR</td>
<td>9</td>
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All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
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<th>Code</th>
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<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<td>Arts and Sciences Orientation</td>
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<td>Foreign Language</td>
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<td>Electives in Humanities or Social Sciences</td>
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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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Program/Major Requirements

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<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 240</td>
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<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
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<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
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<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
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<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
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<tr>
<td>&amp; BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
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<tr>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
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<tr>
<td>BIOL 409</td>
<td>Evolutionary Biology - CUE (CUE)</td>
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<td>Biology Electives</td>
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Supporting Courses

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<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
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</table>
CHEM 207  Introduction to Chemical Analysis I - SL  1
CHEM 208  Introduction to Chemical Analysis II - SL  1
CHEM 209  Introduction to Chemical Analysis III  1
CHEM 341  Organic Chemistry I  3
CHEM 342  Organic Chemistry II  3
CHEM 343  Organic Chemistry Laboratory I  2
CHEM 344  Organic Chemistry Laboratory II  2
MATH 180  Elements of Calculus - QR or MATH 205  Calculus I - QR  3-4
BIOL 350  Biostatistics  3

Minimum Electives  5-6
Minimum Total Hours  68

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<tr>
<td>BIOL 404</td>
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<td>BIOL 406</td>
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<td>BIOL 415</td>
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<td>BIOL 443</td>
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<td>BIOL 485</td>
<td>Microbial Physiology - CUE, WR</td>
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<td>BIOL 490</td>
<td>Biology Internship - CUE</td>
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<td>BIOL 541</td>
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<td>BIOL 548</td>
<td>Experimental Design and Analysis - CUE</td>
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1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.
2 Completion of the intermediate level of a single foreign language
3 In addition to courses counted toward General Education; 6 hours must be at 300 level or above
4 May be incorporated into other degree requirements
5 BIOL 102, BIOL 104, BIOL 257, BIOL 258, BIOL 260, BIOL 261, BIOL 262 and BIOL 263 may not count toward electives in the major. A maximum of 6 hours of undergraduate research or independent study may count toward the major. Students should take all BIOL electives at the 300 level or above.
6 Or advisor-approved statistics course
7 At least 5 hours should be at the 300 level or higher. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

### Flight Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>GEN 100</td>
<td>Student Success Center Orientation or GEN 101 or Arts and Sciences Orientation</td>
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<td>BIOL 240</td>
<td>Unity of Life - S</td>
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<td>MATH 180</td>
<td>Elements of Calculus - QR or MATH 205 or Calculus I - QR</td>
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<td>Foreign Language 1</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<th>Course</th>
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<th>Hours</th>
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<td><strong>Spring</strong></td>
<td>BIOL 324</td>
<td>Diversity of Life</td>
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<td>BIOL 344</td>
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<td>CHEM 207</td>
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<td>ENGL 102</td>
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<td>Cellular and Molecular Biology</td>
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<td>Foreign Language 3</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<td>General Education: Cardinal Core Social &amp; Behavioral Sciences US Diversity - SBD1</td>
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<tr>
<th>Year</th>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td><strong>Spring</strong></td>
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<td>Genetics and Molecular Biology</td>
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<td>BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
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<tr>
<td></td>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td></td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
<td>3</td>
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<tr>
<td></td>
<td>Biology Elective (300 level or above)</td>
<td></td>
<td>3-4</td>
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<td></td>
<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 343</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td></td>
<td>3</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring</strong></td>
<td>BIOL 350</td>
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<tr>
<td></td>
<td>BIOL 409</td>
<td>Evolutionary Biology - CUE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Biology Elective (300 level or above)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>CHEM 342</td>
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</tr>
<tr>
<td></td>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Global Diversity - AH02</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Biology Elective - CUE</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Biology Elective (300 level or above)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Humanities or Social Science WR course (300 level or above)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences - SB</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

### Biology (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Biology (BIOBLS CEL; BIOBLS ECO; BIOBLS GEN)**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Department: Biology (http://www.louisville.edu/a-s/biology)

#### Program Information

There are two undergraduate degree programs offered in the Biology Department, a Bachelor of Arts (BA) in Biology and a Bachelor of Science (BS) in Biology.

Bachelor of Science degrees are designed so that students get a particularly strong background in their area of interest in biology, cell/physiology, or ecology, but still have some flexibility to take courses of interest. Compared to the BA degree, the BS degree requires more science, both in biology and in another field (physics or geosciences), a specific calculus course, and one less course in a foreign language.

Each of the tracks in the BS degree also requires courses specific to the field of interest. BS degrees are valuable for students wanting to find employment in a biological field without further formal education, for students planning to attend graduate or professional school, and for students who hope to become teachers.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>(10 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>64-70</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>23-45</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
</tr>
</tbody>
</table>

1. Some courses required in this degree program may satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Accelerated BA-BS/MS in Biology

Students who wish to pursue an accelerated non-thesis master’s degree in Biology (BA-BS/MS) will be allowed to apply up to nine (9) hours of coursework taken for graduate credit while enrolled as an undergraduate. An additional twenty-four (24) hours of graduate coursework will constitute the minimum number of credit hours for obtaining the non-thesis masters in the accelerated program.

### Early Start Program (Jointly with the College of Education and Human Development)

The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 148 credits are required for the dual degrees: 121 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by
discipline. Students enrolling in the accelerated program will be non-
thesis students and must adhere to all policies pertaining to Graduate
Students. All interested students must submit an application to the
College of Education and Human Development (CEHD) MAT program and
meet the admission criteria.

Departmental Admission Requirements
Admission to the Bachelor of Science in Biology requires the following:

• Completion of BIOL 240, BIOL 242 and BIOL 244 with a grade of C or
better
• Completion of MATH 111 with a grade of C or better OR placement
into a mathematics course above the level of MATH 111 on the
basis of either the University of Louisville mathematics placement
examination or ACT/SAT score
• A minimum overall grade point average (GPA) of 2.0.

The Application for Major form can be found on the Arts & Sciences
Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>) *</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy
the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>2</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General
Education Program (link provided above). To complete the degree in
the minimum number of hours listed on the Overview tab, some hours
from the General Education Requirements must be satisfied by courses
defined by the unit and/or program. If additional hours taken within the
program also satisfy General Education requirements, students may need
to take additional electives to satisfy the minimum hours required for the
degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>6-8</td>
</tr>
<tr>
<td>Electives in Humanities or Social Sciences at the 300-level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>WR - two approved courses at the 300 level or above</td>
<td>3</td>
<td></td>
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</table>

Minimum Total Hours 13-15

Program/Major Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>2</td>
</tr>
</tbody>
</table>

Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 350</td>
<td>Biostatistics (or advisor-approved statistics course)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>2</td>
</tr>
<tr>
<td>&amp; CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td></td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>(varies)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 55-57

Only 60 hours in the major department may be applied toward the
Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level
or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 404</td>
<td>Undergraduate Research - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 406</td>
<td>Undergraduate Research (WR) - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 409</td>
<td>Evolutionary Biology - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 415</td>
<td>Biology of the Cell - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 430</td>
<td>Undergraduate Teaching Assistant - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 440</td>
<td>Global Change Ecology - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 443</td>
<td>Developmental Biology - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 485</td>
<td>Microbial Physiology - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 490</td>
<td>Biology Internship - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 541</td>
<td>Medicinal Plant Biochemistry - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 548</td>
<td>Experimental Design and Analysis - CUE</td>
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</tr>
</tbody>
</table>

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 404</td>
<td>Undergraduate Research - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 406</td>
<td>Undergraduate Research (WR) - CUE, WR</td>
<td></td>
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<tr>
<td>BIOL 409</td>
<td>Evolutionary Biology - CUE</td>
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</tr>
<tr>
<td>BIOL 415</td>
<td>Biology of the Cell - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 430</td>
<td>Undergraduate Teaching Assistant - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 440</td>
<td>Global Change Ecology - CUE</td>
<td></td>
</tr>
<tr>
<td>BIOL 443</td>
<td>Developmental Biology - CUE, WR</td>
<td></td>
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<tr>
<td>BIOL 485</td>
<td>Microbial Physiology - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 490</td>
<td>Biology Internship - CUE</td>
<td></td>
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<tr>
<td>BIOL 541</td>
<td>Medicinal Plant Biochemistry - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>BIOL 548</td>
<td>Experimental Design and Analysis - CUE</td>
<td></td>
</tr>
</tbody>
</table>

Completion of the second semester of a single foreign language;
hours will vary depending on language taken

1 Completion of the second semester of a single foreign language;
hours will vary depending on language taken

2 In addition to courses counted toward General Education

3 May be incorporated into other degree requirements

4 Fulfills General Education requirement.

Note: BIOL 102, BIOL 257, BIOL 258, BIOL 260, BIOL 261, BIOL 262 and BIOL 263, may not count toward electives in the major.
A maximum of 6 hours of undergraduate research or independent
study may count toward the major.

5 No electives are initially required in this program, however, students
who fulfill Quantitative Reasoning and Natural Science General
Education requirements with courses in the major or supporting
courses may have elective hours.
**BS in Biology Tracks**

**Track in Genetics/Subcellular (BIOLBS GEN)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>&amp; CHEM 344</td>
<td>Organic Chemistry Laboratory II</td>
<td></td>
</tr>
</tbody>
</table>

**Track Requirements**

Select 3-4 hours from the following:

- BIOL 404 Undergraduate Research - CUE
- BIOL 406 Undergraduate Research (WR) - CUE, WR
- BIOL 416 Biotechnology Methods - WR
- BIOL 415 Biology of the Cell - CUE, WR
- or BIOL 542 Gene Structure and Function - WR
- BIOL 540 Intermediary Metabolism
- or CHEM 445 Survey of Biochemistry

Select one of the following:

- BIOL 357 General Microbiology
- & BIOL 358 Microbiology Laboratory
- BIOL 400 Histology
- BIOL 443 Developmental Biology - CUE, WR
- BIOL 465 Principles of Physiology

**Supporting Courses**

Select one of the following sequences:

- 6-8
  - PHYS 221 Fundamentals of Physics I - S
  - & PHYS 222 Fundamentals of Physics II - S
  - & PHYS 223 Fundamentals of Physics Lab I - SL
  - & PHYS 224 Fundamentals of Physics Laboratory II - SL
  - or GEOS 301 Geology for Scientists and Engineers
  - or GEOS 367 Geomorphology

AND select one from the following:

- GEOG 355 Introduction to Remote Sensing
- GEOG 558 Introduction to Geographic Information Systems
- GEOS 363 Climate Science
- GEOS 365 Biogeography

**Minimum Total Hours**

23-27

**Track in Ecology (BIOLBS ECO)**

**Ecology Core Curriculum:**

- BIOL 401 Advanced Ecology
- BIOL 562 Ecosystems Ecology
- BIOL 563 Population and Community Ecology

Select at least one course from each of the following three categories:

**Plant Ecology**

- BIOL 300 Plant Biology - WR
- BIOL 304 Plant Taxonomy & Ecology - WR
- BIOL 435 Chemical Ecology - WR

**Animal Ecology**

- BIOL 308 Vertebrate Zoology
- BIOL 310 Animal Behavior
- BIOL 382 Entomology
- BIOL 514 Ornithology
- BIOL 515 Environmental Physiology

**Systems and Evolutionary Ecology**

- BIOL 372 Evolutionary Ecology of Disease
- BIOL 440 Global Change Ecology - CUE
- BIOL 560 Ecology of Urban and Suburban Landscapes
- BIOL 567 Conservation Biology

Select two additional courses from any of the three categories above

6

Biology electives at the 300 level or above

6

**Supporting Courses**

Select any two of the following options:

- 6-7
  - CHEM 342 Organic Chemistry II
  - & CHEM 344 Organic Chemistry Laboratory II
**Flight Plan**

### Track in Genetics/Subcellular

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
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<tr>
<td>CHEM 208</td>
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<td></td>
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<td>15-16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
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<td></td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
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<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
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<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>2</td>
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<td>CHEM 202</td>
<td>General Chemistry II - S</td>
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<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
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<td><strong>Year 2</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td></td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
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<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Spring</strong></td>
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<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
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</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<td></td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Genetics and Molecular Biology Laboratory</td>
<td>2</td>
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<td></td>
<td>16</td>
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</table>

### Track in Cellular/Physiology

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
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</tr>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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<td>ENGL 102</td>
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<td>BIOL 242</td>
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<td>General Chemistry II - S</td>
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<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
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</table>
**Track in Ecology**

**Course** | **Title** | **Hours**
---|---|---
**Year 1** | | |
**Fall** | | |
GEN 100  | Student Success Center Orientation  | 1  
or GEN 101  | or Arts Sciences Orientation  | 1  
ENGL 101  | Introduction to College Writing - WC  | 3  
Foreign Language 1  | 3-4  
CHEM 201  | General Chemistry I - S  | 3  
CHEM 207  | Introduction to Chemical Analysis I - SL  | 1  
CHEM 208  | Introduction to Chemical Analysis II - SL  | 1  
BIOL 240  | Unity of Life - S  | 3  
**Spring** | | |
ENGL 102  | Intermediate College Writing - WC  | 3  
Foreign Language 2  | 3-4  
CHEM 202  | General Chemistry II - S  | 3  
CHEM 209  | Introduction to Chemical Analysis III  | 1  
BIOL 242  | Diversity of Life  | 3  
BIOL 244  | Principles of Biology Laboratory - SL  | 2  
**Year 2** | | |
**Fall** | | |
General Education: Cardinal Core Oral Communication - OC  | 3  
MATH 205  | Calculus I - QR  | 4  
BIOL 329  | Cellular and Molecular Biology  | 3  
Ecology Supporting Course (one of the following):  | 3-4  
CHEM 342  | Organic Chemistry II  | 3  
& CHEM 344  | Organic Chemistry Laboratory II  | 3  
GEOG 355  | Introduction to Remote Sensing  | 3  
GEOG 558  | Introduction to Geographic Information Systems  | 3  
GEOG 301  | Geology for Scientists and Engineers  | 3  
GEOG 363  | Climate Science  | 3  
GEOG 365  | Biogeography  | 3  
GEOG 367  | Geomorphology  | 3  
SUST 518  | Urban Demography and GIS  | 3  
**Spring** | | |
GEOG 355  | Introduction to Remote Sensing  | 3  
GEOG 558  | Introduction to Geographic Information Systems  | 3  
GEOG 301  | Geology for Scientists and Engineers  | 3  
GEOG 363  | Climate Science  | 3  
GEOG 365  | Biogeography  | 3  
GEOG 367  | Geomorphology  | 3  
SUST 518  | Urban Demography and GIS  | 3  
**Year 3** | | |
**Fall** | | |
General Education: Cardinal Core Oral Communication - OC  | 3  
MATH 205  | Calculus I - QR  | 4  
BIOL 329  | Cellular and Molecular Biology  | 3  
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH  | 3  
General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SBD1  | 3  
**Spring** | | |
BIOG 355  | Principles of Ecology  | 3  
or PSYC 301  | or Statistics for Psychology  | 3  
BIOG 465  | Principles of Physiology  | 3  
Cellular/Physiology Track Course  | 3-4  
Select one or two of the following as appropriate:  | 3-4  
PHYS 222  | Fundamentals of Physics I - S  | 3  
PHYS 222  | Fundamentals of Physics Lab I - SL (only if taking PHYS 221)  | 3  
PHYS 222  | Fundamentals of Physics Lab II - SL (only if taking PHYS 222)  | 3  
GEOS 363  | Geology for Scientists and Engineers  | 3  
GEOS 367  | Geomorphology  | 3  
SUST 518  | Urban Demography and GIS  | 3  
**Year 4** | | |
**Fall** | | |
BIOG 409  | Evolutionary Biology - CUE  | 3  
Cellular/Physiology Track Course  | 3-4  
Biology Electives  | 6  
General elective  | 3  
**Spring** | | |
Cellular/Physiology Track Course  | 3-4  
Biology Elective  | 3-4  
General Education: Cardinal Core Arts & Humanities - AH  | 3  
Humanities or Social Science WR Course (300 level or above)  | 3  
**Minimum Total Hours** | | 121-126  

---

**Notes:**
- Additional courses may be required to complete a degree.
- Some courses may have prerequisites that need to be met.
- Students are encouraged to consult with an academic advisor for specific course selection and planning.
- The list above is not exhaustive and may not include all potential courses available within the program.
### Business Administration in Accountancy (BSBA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Business Administration in Accountancy (ACCYBSB)**

Unit: Business (BU) (http://www.louisville.edu/business)

Department: Accountancy (http://business.louisville.edu/accountancy)

#### Program Information

The mission of the School of Accountancy is to meet the needs of our metropolitan and regional constituents by providing flexible and varied learning experiences to enable our students to succeed in their careers; by producing scholarly works to disseminate knowledge to the business and academic communities and to enrich the learning experiences of our students; and by using our expertise to serve the community, the university, and the accounting profession.

The University of Louisville Accountancy Program is separately accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

#### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>General Education Requirements</td>
<td>(<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<tr>
<td>College/School Requirements</td>
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**Minimum Total Hours**

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¹ To complete the degree in the **minimum number of hours** listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

² College/School Requirements includes 6 hours of required courses that also cover General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

---

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<tr>
<th>Year 4</th>
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<tr>
<td>Fall</td>
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<tr>
<td>BIOL 401</td>
<td>Advanced Ecology</td>
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<td>BIOL 402</td>
<td>Advanced Ecology Lab</td>
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<tr>
<td>BIOL 409</td>
<td>Evolutionary Biology - CUE</td>
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<td>Plant, Animal, or Systems and Evolutionary Ecology elective 3</td>
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<tr>
<td>Biology elective (300 level or above)</td>
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<td>Humanities/Social Science Elective (300 level or above)</td>
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<td><strong>Hours</strong></td>
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<tr>
<td>BIOL 562</td>
<td>Ecosystems Ecology</td>
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<td>BIOL 563</td>
<td>Population and Community Ecology</td>
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<td>Ecology elective 2</td>
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<td>Humanities/Social Science Elective (300 level or above)</td>
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<td>Ecology Supporting Course (one of the following):</td>
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<tr>
<td>CHEM 342 &amp; CHEM 344</td>
<td>Organic Chemistry II &amp; Organic Chemistry Laboratory II</td>
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<td>GEOG 355</td>
<td>Introduction to Remote Sensing</td>
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<td>GEOG 558</td>
<td>Introduction to Geographic Information Systems</td>
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<td>GEOS 301</td>
<td>Geology for Scientists and Engineers</td>
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<td>GEOS 363</td>
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<td>GEOS 365</td>
<td>Biogeography</td>
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<td>GEOS 367</td>
<td>Geomorphology</td>
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<tr>
<td>SUST 518</td>
<td>Urban Demography and GIS</td>
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<tr>
<td><strong>Hours</strong></td>
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</table>

Minimum Total Hours: **123-127**
Departmental Admission Requirements

Admission to the College of Business (p. 26) ensures admission to the BSB in Accountancy.

General Education Requirements

General Education Requirements (http://catalog.louisville.edu/undergraduate/general-education-requirements)¹

The following courses are required by the program and can satisfy the respective General Education Requirement:

- MATH 180 Elements of Calculus - QR
- or MATH 205 Calculus I - QR
- ECON 201 Principles of Microeconomics - SB
- or ECON 202 Principles of Macroeconomics - SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

College of Business Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
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<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR ² ³</td>
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<tr>
<td>or MATH 205</td>
<td>Calculus I - QR</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
<td>3</td>
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<tr>
<td>PHIL 225</td>
<td>Business Ethics</td>
<td></td>
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<tr>
<td>PHIL 321</td>
<td>Ethics</td>
<td></td>
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<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
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<tr>
<td>BUS 301</td>
<td>Business Communication</td>
<td>3</td>
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<tr>
<td>BUS 201</td>
<td>Career Development</td>
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<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting &amp; ACCT 202</td>
<td>Principles of Managerial Accounting</td>
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<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB &amp; ECON 202</td>
<td>Principles of Macroeconomics - SB ⁴</td>
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<td>BSTA 301</td>
<td>Business Statistics ⁵</td>
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<td>CIS 205</td>
<td>Information Systems in Organizations</td>
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<tr>
<td>General Electives</td>
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<td>6</td>
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<td>Business Breadth</td>
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<tr>
<td>FIN 301</td>
<td>Corporate Finance</td>
<td>3</td>
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<tr>
<td>MKT 301</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>MGMT 301</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CLAW 301</td>
<td>Legal Environment of Business</td>
<td>3</td>
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<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
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<tr>
<td>MGMT 401</td>
<td>Operations Management</td>
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Minimum Total Hours 53

Total of 53 includes 3 credit hours of ECON and 3 credit hours of MATH that are also counted in the 31 Gen Ed hours above.

Program/Major Requirements

Accountancy Depth

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ACCT 301</td>
<td>Intermediate Accounting I</td>
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<td>ACCT 302</td>
<td>Intermediate Accounting II</td>
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<tr>
<td>ACCT 310</td>
<td>Introduction to Accounting Information Systems</td>
<td>3</td>
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<tr>
<td>ACCT 315</td>
<td>Introduction to Taxation</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 320</td>
<td>Managerial Cost Accounting</td>
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<tr>
<td>ACCT 411</td>
<td>Advanced Accounting Information Systems - CUE</td>
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<tr>
<td>ACCT 430</td>
<td>Auditing Theory and Practice</td>
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<td>MGMT 404</td>
<td>Project Management</td>
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Accountancy Electives

Select one of the following: 3

- ACCT 353 | Accounting for Not-For-Profit Organizations | 3 |
- ACCT 401 | Advanced Accounting Problems          |       |
- ACCT 415 | Advanced Taxation                     |       |
- ACCT 420 | Advanced Managerial Cost Accounting   |       |
- Co-op in Accounting ⁶ |       | 3 |

Business Electives (not Accounting) 12

General Electives (Electives total assumes use of College requirements to satisfy General Education requirements)

Minimum Total Hours 42

Transfer students must take a minimum of 12 credit hours in their major within the College of Business.

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing:

- ACCT 411 | Advanced Accounting Information Systems - CUE | 3 |

¹ College/School Requirements include six hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). A courses satisfying the General Education Oral Communication requirement (COMM 111, COMM 112 or HON 214) are required as prerequisite for BUS 301, but is not included in the required coursework.

² If MATH 205 is taken, there will be 4 total hours of math, reducing the amount of elective credit required to complete the degree.

³ Completes Quantitative Reasoning General Education requirement

⁴ Completes 3 hours of Social & Behavioral Sciences General Education requirement.

⁵ The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326

⁶ Co-op may be taken over more than one semester. No more than 3 credit hours may count towards the degree. Co-op hours may not be combined with other academic hours.

Flight Plan

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<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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University of Louisville
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<td>ENGL 101</td>
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<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
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<td>or Calculus I - QR</td>
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<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
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**Spring**

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<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD</td>
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**Year 2**

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<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
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<td>CIS 205</td>
<td>Information Systems in Organizations</td>
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<td>BUS 201</td>
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**Spring**

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<td>Intermediate Accounting I</td>
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<td>MKT 301</td>
<td>Principles of Marketing</td>
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<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
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<td>or History of Civilizations II - D2, SBH</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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**Year 3**

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<td>Intermediate Accounting II</td>
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<td>ACCT 315</td>
<td>Introduction to Taxation</td>
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<td>FIN 301</td>
<td>Corporate Finance</td>
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<td>MGMT 301</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
<td></td>
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<td><strong>Hours</strong></td>
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**Spring**

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<td>ACCT 320</td>
<td>Managerial Cost Accounting</td>
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<td>CLAW 301</td>
<td>Legal Environment of Business</td>
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<td>Business Elective (non-Accounting)</td>
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<tr>
<td>General Elective</td>
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**Year 4**

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</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ACCT 430</td>
<td>Auditing Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 401</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

**Business Administration in Computer Information Systems (BSBA)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Business Administration in Computer Information Systems (CIS BSB)**

Unit: Business (BU) (http://business.louisville.edu)  
Department: Computer Information Systems (http://business.louisville.edu/cis)
Program Information

The primary mission of the degree program of the Computer Information Systems Department is to prepare the students to become the information technology professionals of the future for Louisville and the immediate region with curriculum that reflects the state of the art in information technology theory and practice.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">link</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

1 To complete the degree in the **minimum number of hours** listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

2 College/School Requirements total includes 6 hours of required courses that also cover General Education requirements.

3 Program/major requirements include 15 hours in the track.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the College of Business (p. 26) ensures admission to the BSBA in Computer Information Systems.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">link</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>The following courses are required by the program and can satisfy the respective General Education Requirement:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 180 Elements of Calculus - QR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or MATH 205 Calculus I - QR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 201 Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ECON 202 Principles of Macroeconomics - SB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All degrees require the completion of the University-wide General Education Program (<a href="#">link</a>) above. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.</td>
<td></td>
</tr>
</tbody>
</table>

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>College of Business Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAMP 100 Campus Culture/Business Students</td>
<td>1</td>
</tr>
</tbody>
</table>

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Computer Information Systems Core</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIS 150 Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 199 Software Development I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 310 Database Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 320 Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 350 Infrastructure Technologies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 410 Management of Information Systems - CUE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 420 CIS Development Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>42</td>
</tr>
</tbody>
</table>

Transfer students must take a minimum of 12 credit hours in their major within the College of Business.

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

All course prerequisites must be met.

Culminating Undergraduate Experience (Graduation requirement)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Requirement fulfilled by completing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIS 410 Management of Information Systems - CUE</td>
<td></td>
</tr>
</tbody>
</table>
1 College/School Requirements include six hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). A course that satisfies the General Education Oral Communication requirement (COMM 111, COMM 112 or HON 214) is required as prerequisite for BUS 301, but not included in the program requirements. Students who select PHIL 222 to satisfy the Ethics requirement will also satisfy 3 hours of the Arts & humanities requirement, and may require additional electives to complete the hours required for the degree.

2 If MATH 205 is taken, there will be 4 total hours of math, which may reduce the number of elective hours required to complete the degree.

3 Completes Quantitative Reasoning General Education requirement.

4 Completes 3 hours of Social & Behavioral Sciences General Education requirement.

5 The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326

6 Co-operative Education is a curriculum requirement for six (6) months full time employment for six (6) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences.

---

### Flight Plan

#### Track in Web Development (CIS BSBWEB)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 200</td>
<td>Software Development II</td>
<td>3</td>
</tr>
<tr>
<td>CIS 411</td>
<td>Web Application Development</td>
<td>3</td>
</tr>
<tr>
<td>CIS Elective (400 level)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CIS 397</td>
<td>Co-op in Computer Information Systems I</td>
<td>1</td>
</tr>
<tr>
<td>CIS 398</td>
<td>Co-op in Computer Information Systems II</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

1 Co-operative Education is a curriculum requirement for six (6) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences (CIS 397).

#### Track in Business Process Management

**Flight Plan**

**Track in Business Process Management (CIS BSBBPM)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
<td>1</td>
</tr>
<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - L</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CIS 150</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

Year 2

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 201</td>
<td>Career Development</td>
<td>1</td>
</tr>
<tr>
<td>BUS 301</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>CIS 199</td>
<td>Software Development I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CIS 310</td>
<td>Database Design</td>
<td>3</td>
</tr>
<tr>
<td>CIS 350</td>
<td>Infrastructure Technologies</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
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</tbody>
</table>

Minimum Total Hours: 16

Year 3

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CIS 320</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
<td></td>
</tr>
<tr>
<td>PHIL 225</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Ethics</td>
<td></td>
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</tbody>
</table>

---

### Track for the BSBA in Computer Information Systems

#### Track in Business Process Management (CIS BSBBPM)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 481</td>
<td>Introduction to Information Security</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 404</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS Electives (400 level and/or CIS 200)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS 397</td>
<td>Co-op in Computer Information Systems I</td>
<td>1</td>
</tr>
<tr>
<td>&amp; CIS 398</td>
<td>Co-op in Computer Information Systems II</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

1 Co-operative Education is a curriculum requirement for six (6) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences (CIS 397).

#### Track in Information Security (CIS BSBSEC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 480</td>
<td>Introduction to Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 481</td>
<td>Introduction to Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 483</td>
<td>Introduction to Database Security</td>
<td>3</td>
</tr>
<tr>
<td>Info Sec Elective:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 482</td>
<td>Introduction to Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>or CIS 484</td>
<td>Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 397</td>
<td>Co-op in Computer Information Systems I</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

1 Co-operative Education is a curriculum requirement for three (3) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences (CIS 397).
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
<td>15</td>
</tr>
</tbody>
</table>

**Spring**
- CIS 420  CIS Development Project  3
- MGMT 301 Management and Organizational Behavior  3
- MKT 301  Principles of Marketing  3
- BSTA 301 Business Statistics  3
- CIS Elective (400 level and/or CIS 200)  3

**Summer**
- CIS 481 Introduction to Information Security  3

**Year 4**

**Fall**
- FIN 301 Corporate Finance  3
- CLAW 301 Legal Environment of Business  3
- MGMT 404 Project Management  3
- General Elective  3
- General Elective  3

**Spring**
- MGMT 401 Operations Management  3
- CIS 410 Management of Information Systems - CUE  3
- CIS 397 Co-op in Computer Information Systems I  3
- CIS 398 Co-op in Computer Information Systems II  3

**Track in Information Security**

**Course**
- CAMP 100 Campus Culture/Business Students  1
- CIS 205 Information Systems in Organizations  3
- ENGL 101 Introduction to College Writing - WC  3
- CIS 305 Data Analysis for Decision-Making  3
- General Education: Cardinal Core Natural Sciences - S  3
- General Education: Cardinal Core Natural Sciences Lab - SL  1

**Hours**
14

**Spring**
- CIS 150 Fundamentals of Information Systems  3
- MATH 180 Elements of Calculus - QR  3
- ENGL 102 Intermediate College Writing - WC  3
- ECON 202 Principles of Macroeconomics - SB  3
- General Education: Cardinal Core Oral Communication - OC  3

**Year 2**

**Fall**
- BUS 201 Career Development  1
- BUS 301 Business Communication  3
- CIS 199 Software Development I  3
- BSTA 301 Business Statistics  3
- General Education: Cardinal Core Natural Sciences - S  3

**Hours**
13

**Spring**
- CIS 310 Database Design  3
- CIS 350 Infrastructure Technologies  3
- ECON 201 Principles of Microeconomics - SB  3
- ACCT 201 Principles of Financial Accounting  3

**Year 3**

**Fall**
- CIS 320 Systems Analysis and Design  3
- ACCT 202 Principles of Managerial Accounting  3
- HIST 101 History of Civilizations I - D2, SBH  3
- or HIST 102 History of Civilizations II - D2, SBH  3
- General Education: Cardinal Core Arts & Humanities US Diversity - AHD 1  3
- Select one of the following:  3
- PHIL 222 Contemporary Ethical Problems - AH  3
- PHIL 225 Business Ethics  3
- PHIL 321 Ethics  3
- PHIL 323 Medical Ethics  3

**Summer**
- CIS 481 Introduction to Information Security  3

**Track in Web Development**

**Course**
- CAMP 100 Campus Culture/Business Students  1
- CIS 205 Information Systems in Organizations  3
- CIS 150 Fundamentals of Information Systems  3
- ENGL 101 Introduction to College Writing - WC  3
- CIS 305 Data Analysis for Decision-Making  3
- General Education: Cardinal Core Natural Sciences - S  3

**Year 1**

**Fall**
- BUS 201 Career Development  1
- BUS 301 Business Communication  3
- CIS 199 Software Development I  3
- BSTA 301 Business Statistics  3
- General Education: Cardinal Core Natural Sciences - S  3

**Hours**
16

**Spring**
- CIS 199 Software Development I  3
- MATH 180 Elements of Calculus - QR  3
- ENGL 102 Intermediate College Writing - WC  3
- ECON 202 Principles of Macroeconomics - SB  3

**Track in Information Security**

**Course**
- CAMP 100 Campus Culture/Business Students  1
- CIS 205 Information Systems in Organizations  3
- CIS 150 Fundamentals of Information Systems  3
- ENGL 101 Introduction to College Writing - WC  3
- CIS 305 Data Analysis for Decision-Making  3
- General Education: Cardinal Core Natural Sciences - S  3

**Hours**
16

**Spring**
- CIS 410 Management of Information Systems - CUE  3
- CIS 484 Computer Forensics  3
- or CIS 482 or Introduction to Cryptography  3
- CIS 483 Introduction to Database Security  3
- MGMT 401 Operations Management  3
- General Elective  3

**Hours**
15

**Minimum Total Hours**
120
### General Education: Cardinal Core Oral Communication - OC
- **Hours:** 3

### Year 2
#### Fall
- **BUS 201** Career Development
- **BUS 301** Business Communication
- **CIS 200** Software Development II
- **General Education: Cardinal Core Arts & Humanities US Diversity - AHD1**
- **BSTA 301** Business Statistics
- **Hours:** 15

#### Spring
- **ECON 201** Principles of Microeconomics - SB
- **ACCT 201** Principles of Financial Accounting
- **CIS 310** Database Design
- **CIS 350** Infrastructure Technologies
- **General Education: Cardinal Core Arts & Humanities - AH**
- **Hours:** 13

### Year 3
#### Fall
- **CIS 320** Systems Analysis and Design
- **ACCT 202** Principles of Managerial Accounting
- **HIST 101** or **HIST 102** History of Civilizations I - D2, SBH
- **General Education: Cardinal Core Natural Sciences - S**
- **General Education: Cardinal Core Natural Sciences Lab - SL**
- **Select one of the following:**
  - **PHIL 222** Contemporary Ethical Problems - AH
  - **PHIL 225** Business Ethics
  - **PHIL 321** Ethics
  - **PHIL 323** Medical Ethics
- **Hours:** 16

#### Spring
- **CIS 420** CIS Development Project
- **CIS 411** Web Application Development
- **MGMT 301** Management and Organizational Behavior
- **MKT 301** Principles of Marketing
- **General Elective**
- **Hours:** 15

### Year 4
#### Fall
- **CIS 397** Co-op in Computer Information Systems I
- **FIN 301** Corporate Finance
- **CLAW 301** Legal Environment of Business
- **CIS Elective (400 level)**
- **General Elective**
- **Hours:** 15

#### Spring
- **CIS 410** Management of Information Systems - CUE
- **CIS 398** Co-op in Computer Information Systems II
- **MGMT 401** Operations Management
- **General Elective**
- **General Elective**
- **Hours:** 15

### Minimum Total Hours
- **120**

---

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

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### Business Administration in Equine Business (BSBA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Business Administration in Equine Business (EQINBSB)**

- Unit: Business (BU) (http://www.louisville.edu/business)
- Department: Equine (http://business.louisville.edu/equine)

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### Program Information

The mission of the Equine Business Discipline is to motivate students and professionals in the industry to read, think and question; encourage development of the analytical, entrepreneurial, and management skills needed by the equine industry; inspire enthusiasm, develop leadership; respond to the equine industry’s dramatically changing economic environment by undertaking rigorous, meaningful research; disseminate to the industry through publications, seminars, workshops or state-of-the-art technology, research results and accumulated knowledge, and other business related skills.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.
To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

College/School Requirements total includes 6 hours of required courses that also cover General Education requirements. See Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the College of Business (p. 26) ensures admission to the BSB in Equine Business

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- MATH 180  Elements of Calculus - QR
- or MATH 205  Calculus I - QR
- ECON 201  Principles of Microeconomics - SB
- or ECON 202  Principles of Macroeconomics - SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
<td>1</td>
</tr>
<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
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</tr>
<tr>
<td>or MATH 205</td>
<td>Calculus I - QR</td>
<td></td>
</tr>
<tr>
<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 225</td>
<td>Business Ethics</td>
<td></td>
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<tr>
<td>PHIL 321</td>
<td>Ethics</td>
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<td>PHIL 323</td>
<td>Medical Ethics</td>
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<td>Business Communication</td>
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<td>ACCT 201</td>
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<td>Principles of Managerial Accounting</td>
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<td>Principles of Microeconomics - SB</td>
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<td>&amp; ECON 202</td>
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<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
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<td>General Electives</td>
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<td>Business Breadth</td>
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FIN 301  Corporate Finance  3
MKT 301  Principles of Marketing  3
MGMT 301  Management and Organizational Behavior  3
CLAW 301  Legal Environment of Business  3
CIS 305  Data Analysis for Decision-Making  3
MGMT 301  Management and Organizational Behavior  3

Minimum Total Hours  53

Total of 53 includes 3 credit hours of ECON and 3 credit hours of MATH that are also counted in the 31 General Education hours above.

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EQIN 202</td>
<td>Horse Industry Overview</td>
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<tr>
<td>EQIN 204</td>
<td>Equine Management</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 301</td>
<td>Organization and Administration of Equine Operations</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 302</td>
<td>Equine Economics</td>
<td>3</td>
</tr>
<tr>
<td>or EQIN 401</td>
<td>Equine Taxation</td>
<td></td>
</tr>
<tr>
<td>EQIN 304</td>
<td>Equine Marketing</td>
<td>3</td>
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<tr>
<td>EQIN 313</td>
<td>Equine Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 402</td>
<td>Enterprise Analysis - CUE</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 403</td>
<td>Equine Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 404</td>
<td>Current Equine Issues</td>
<td>3</td>
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<tr>
<td>Business or Equine Electives (300-400 level)*</td>
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<tr>
<td>General Electives* (Assumes 6 hours from College requirements used to satisfy General Education requirements)</td>
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</table>

Minimum Total Hours  42

Transfer students must take a minimum of 12 credit hours in their major within the College of Business.

Six hours of General Education Diversity courses (D1 and D2) are required and may be incorporated within the degree program.

All course prerequisites must be followed.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EQIN 203</td>
<td>Application of Software for Equine Operations</td>
<td>3</td>
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<tr>
<td>EQIN 205</td>
<td>A Global Perspective of Equine Industry</td>
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<tr>
<td>EQIN 206</td>
<td>Industry Speaker Series</td>
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<td>EQIN 250</td>
<td>Equine Assisted Activities</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 303</td>
<td>Equine Regulatory Law</td>
<td>2</td>
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<tr>
<td>EQIN 360</td>
<td>Equine Regulatory Law &amp; Dispute Resolution</td>
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<td>EQIN 396</td>
<td>Zero-Credit Internship-Equine</td>
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<tr>
<td>EQIN 398</td>
<td>Co-op in Equine II</td>
<td>1-3</td>
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</table>

*See table below for potential EQIN elective courses.
1. College/School Requirements include six hours of General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). A course satisfying the General Education Oral Communication requirement (COMM 111, COMM 112, COMM 115, HON 214, POLS 111, or WGST 203) is a prerequisite for BUS 301 but not included in the total hours for the degree. Students who take PHIL 222 to satisfy the Ethics requirement will also satisfy 3 hours of the Arts & Humanities requirement and may need additional electives to satisfy the total hours for the degree.

2. If MATH 205 is taken, there will be 4 total hours of math, which may reduce the electives required for the degree.

3. Completes Quantitative Reasoning General Education requirement (MATH 109, PSYC 301, SOC 301, CJ 326).

4. The following will also meet the statistics requirement: MATH 109, PSYC 301, or Calculus (MATH 205 is taken, there will be 4 total hours of math, which may reduce the electives required for the degree).

5. EQIN 398 Co-op in Equine II in Equine (2.0 GPA, effective Spring 2018); optional course

### Flight Plan

#### Year 1

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
<td>1</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
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<tr>
<td>EQIN 401</td>
<td>Equine Taxation (Can be used as elective unless used in place of EQIN 302)</td>
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<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 205</td>
<td>or Calculus I - QR</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
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<tr>
<td>Hours</td>
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**Spring**

<table>
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<tr>
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<tbody>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
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<tr>
<td>EQIN 402</td>
<td>Equine Management</td>
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<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<td>Select one of the following:</td>
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<tr>
<td>BSTA 301</td>
<td>Business Statistics</td>
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<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
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<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
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<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
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<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
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### Year 2

**Fall**

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<tr>
<td>ACCT 201</td>
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<tr>
<td>BUS 201</td>
<td>Career Development</td>
<td>1</td>
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<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<td>3</td>
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<tr>
<td>Hours</td>
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### Year 3

**Fall**

<table>
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<tbody>
<tr>
<td>EQIN 302</td>
<td>Equine Economics</td>
<td>3</td>
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<td>or EQIN 401</td>
<td>or Equine Taxation</td>
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</tr>
<tr>
<td>EQIN 301</td>
<td>Organization and Administration of Equine Operations</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Hours</td>
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**Spring**

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<tbody>
<tr>
<td>EQIN 304</td>
<td>Equine Marketing</td>
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<tr>
<td>FIN 301</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 401</td>
<td>Operations Management</td>
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<tr>
<td>General Elective</td>
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<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
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</tr>
<tr>
<td>PHIL 225</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Ethics</td>
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<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
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<td>Hours</td>
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### Year 4

**Fall**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EQIN 403</td>
<td>Equine Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
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<tr>
<td>Business or Equine Elective (300 level or above)</td>
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</tr>
<tr>
<td>General Elective (300 level or above)</td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective Global Diversity - SBHD2</td>
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<tr>
<td>Hours</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EQIN 402</td>
<td>Enterprise Analysis - CUE</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 404</td>
<td>Current Equine Issues</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<td>3</td>
</tr>
<tr>
<td>General Elective (300 level or above)</td>
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<tr>
<td>Hours</td>
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</table>

Minimum Total Hours: 123

---

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

### To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
University of Louisville

Business Administration in Finance (BSBA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Business Administration in Finance (FIN BSB)
Unit: Business (BU) (http://business.louisville.edu)
Department: Finance (http://business.louisville.edu/finance)

Program Information

The objective of the Finance major program is to provide our students with a competitive edge in their professional financial and managerial careers. Our majors are prepared, upon graduation to apply critical thinking and problem solving skills, either individually or in teams, in order to creatively and ethically solve problems in a global marketplace.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>College/School Requirements</td>
<td>53</td>
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<td>Program/Major Requirements</td>
<td>42</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

1 To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

2 College/School Requirements include 6 hours of courses that also cover General Education requirements. See the Degree Requirements tab for details.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the College of Business (p. 26) ensures admission to the BSB in Finance.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tr>
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<td>The following courses are required by the program and can satisfy the respective General Education Requirement:</td>
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<tr>
<td></td>
<td>MATH 180 Elements of Calculus - QR</td>
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<tr>
<td></td>
<td>or MATH 205 Calculus I - QR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 201 Principles of Microeconomics - SB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or ECON 202 Principles of Macroeconomics - SB</td>
<td></td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>College of Business Requirements</td>
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<td>MATH 180 Elements of Calculus - QR</td>
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<td></td>
<td>or MATH 205 Calculus I - QR</td>
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<tr>
<td></td>
<td>PHIL 222 Contemporary Ethical Problems - AH</td>
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<td></td>
<td>PHIL 321 Ethics</td>
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<td></td>
<td>PHIL 323 Medical Ethics</td>
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<td>BUS 301 Business Communication</td>
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<td>BUS 201 Career Development</td>
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<td></td>
<td>ACCT 201 Principles of Financial Accounting</td>
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<td></td>
<td>&amp; ACCT 202 Principles of Managerial Accounting</td>
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<td>ECON 201 Principles of Microeconomics - SB</td>
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<td>&amp; ECON 202 Principles of Macroeconomics - SB</td>
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<td>BSTA 301 Business Statistics</td>
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<td>CIS 205 Information Systems in Organizations</td>
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Business Breadth

<table>
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<tr>
<td></td>
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<td>MKT 301 Principles of Marketing</td>
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<td>MGMT 301 Management and Organizational Behavior</td>
<td>3</td>
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<td></td>
<td>CLAW 301 Legal Environment of Business</td>
<td>3</td>
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<td></td>
<td>CIS 305 Data Analysis for Decision-Making</td>
<td>3</td>
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<tr>
<td></td>
<td>MGMT 401 Operations Management</td>
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</table>

Minimum Total Hours | 53

Total of 53 includes 3 credit hours of ECON and 3 credit hours of MATH that are also counted in the 31 General Education hours above.

Program/Major Requirements

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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Flight Plan

<table>
<thead>
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<tbody>
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<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td></td>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>FIN 370</td>
<td>International Finance</td>
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<td></td>
<td></td>
<td>FIN 401</td>
<td>Investments</td>
</tr>
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<td></td>
<td></td>
<td>FIN 403</td>
<td>Financial Derivatives</td>
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<td>Financial Markets and Institutions</td>
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</tbody>
</table>

Transfer students must take a minimum of 12 credit hours in their major within the College of Business.

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

All course prerequisites must be followed.

### Culminating Undergraduate Experience (Graduation requirement)

<table>
<thead>
<tr>
<th>Requirement fulfilled by completing:</th>
<th>Code</th>
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<th>Hours</th>
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<tr>
<td>FIN 475 Capstone Seminar in Finance - CUE</td>
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</table>

1. College/School Requirements include six hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). A course satisfying the General Education Oral Communication requirement (COMM 111, COMM 112 or HON 214) is a prerequisite for BUS 301, but not included in the degree requirements. Students who select PHIL 222 to satisfy the Ethics requirement will also satisfy 3 hours of the Arts & Humanities requirement, which may require additional electives to complete the degree.

2. Completes Quantitative Reasoning General Education requirements.

3. For students with strong high school mathematics backgrounds, and for students who intend to pursue graduate work in finance, MATH 205 and MATH 206 is recommended. MATH 206 may be taken as a General Elective.

4. If MATH 205/MATH 206 is taken, there will be 4-8 total hours of math, reducing the General Elective hours required to complete the degree.

5. Completes 3 hours of Social & Behavioral Sciences General Education requirements.

6. The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326.

7. Co-operative Education is an elective curriculum option for up to six (6) hours of credit. Three hours of Co-op credit may count as the finance elective. If a student take a second 3-hour Co-op class, then it would count as a General Elective. Pass/Fail credit is given for approved COB co-op work experiences. Participation in the COB Co-op program is encouraged to strengthen the BSBA degree for enhanced student marketability.

### Flight Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
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<tr>
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<td>Campus Culture/Business Students</td>
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<td>Introduction to College Writing - WC</td>
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<td></td>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
</tr>
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<td></td>
<td></td>
<td>or MATH 205</td>
<td>or Calculus I - QR</td>
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<td>FIN 370</td>
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<td>Financial Markets and Institutions</td>
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<td>Principles of Managerial Accounting</td>
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<td></td>
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<td></td>
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<td>BSTA 301</td>
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<td>Intermediate Accounting I</td>
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<td>CLAW 301</td>
<td>Legal Environment of Business</td>
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<td>Select one of the following:</td>
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<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
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<td>PHIL 225</td>
<td>Business Ethics</td>
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<td></td>
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<td>PHIL 321</td>
<td>Ethics</td>
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<td>PHIL 323</td>
<td>Medical Ethics</td>
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<td>Spring</td>
<td>BUS 301</td>
<td>Business Communication</td>
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<td>FIN 370</td>
<td>International Finance</td>
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<td>FIN 403</td>
<td>Financial Derivatives</td>
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<td>FIN 433</td>
<td>Financial Markets and Institutions</td>
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<td>General Elective</td>
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<td>Minimum Total Hours</td>
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<td>Spring</td>
<td>FIN 475</td>
<td>Capstone Seminar in Finance - CUE</td>
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<tr>
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<td></td>
<td>Finance Elective</td>
<td>3</td>
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</tbody>
</table>
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULInk account.
2. Click on the Student Services tab.
3. Next, click on “View my Academic Advisement Report” to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on “Create a What-if Advisement Report.”

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Business Administration in Marketing (BSBA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Business Administration in Marketing (MKT BSB)
Unit: Business (BU) (http://business.louisville.edu)
Department: Marketing (http://business.louisville.edu/marketing)

Program Information
The purpose of the Department of Marketing is to be an intellectual force that benefits our constituents in the local, regional, national, and global community through our creative and entrepreneurial teaching, research, and service activities. Our constituents include: students, employers, alumni, the university community, public and private sector organizations, and professional and academic marketing groups. The Undergraduate Major and Minor in Marketing are specifically designed to prepare our students for the several career options available in Marketing and to enable them to succeed in the global marketplace.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Six (6) hours of General Education requirements may be satisfied through coursework required by the degree program</td>
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</tr>
<tr>
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<td>College/School Requirements</td>
<td>53</td>
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<tr>
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<td>Program/Major Requirements</td>
<td>42</td>
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<td></td>
<td>Minimum Total Hours</td>
<td>120</td>
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</tbody>
</table>

1. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

2. College/School Requirements total of 53 hours includes 6 hours of required courses that also cover General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the College of Business ensures admission to the BSBA in Marketing.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<tr>
<td></td>
<td>The following courses are required by the program and can satisfy the respective General Education Requirement:</td>
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<tr>
<td></td>
<td>MATH 180 Elements of Calculus - QR</td>
<td></td>
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<tr>
<td></td>
<td>or MATH 205 Calculus I - QR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 201 Principles of Microeconomics - SB</td>
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</tr>
<tr>
<td></td>
<td>or ECON 202 Principles of Macroeconomics - SB</td>
<td></td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>College of Business Requirements</td>
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<tr>
<td>MATH 180</td>
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</tr>
<tr>
<td>or MATH 205</td>
<td>Calculus I - QR</td>
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<td>Select one of the following Ethics courses:</td>
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<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
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<td>PHIL 225</td>
<td>Business Ethics</td>
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<td>PHIL 321</td>
<td>Ethics</td>
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<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
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<tr>
<td>BUS 301</td>
<td>Business Communication</td>
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</tbody>
</table>
Program/Major Requirements

**Marketing Depth**
- MKT 350 Consumer Behavior 3
- MKT 360 Professional Relationship Selling 3
- MKT 441 Marketing Research 3
- MKT 460 Integrative Marketing Strategy - CUE 3
- Marketing Electives 9
- Business Electives (not Marketing) 6
- General Electives 15
- Minimum Total Hours 42

**Culminating Undergraduate Experience (Graduation requirement)**
- MKT 460 Integrative Marketing Strategy - CUE 3

1 College/School Requirements include six hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). General Education Oral Communication: COMM 111, COMM 112 or HON 214 required as prerequisite for BUS 301
2 If MATH 205 is taken, there will be 4 total hours of Math
3 Completes Quantitative Reasoning General Education
4 Completes 3 hours of Social & Behavioral Sciences.
5 The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326
6 Marketing majors are allowed to take up to six (6) co-op credits in the program as part of Marketing electives. These include MKT 397, MKT 398 and/or MKT 399. Pass/Fail credit is given for approved College of Business co-op work experiences.

Transfer students must take a minimum of 12 credit hours in their major within the College of Business.

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

**NOTE:** All prerequisites must be followed.

**Flight Plan**

**Year 1**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Fall</td>
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<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
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<td>Introduction to College Writing - WC</td>
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<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
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<td>or MATH 205</td>
<td>or Calculus I - QR</td>
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<td>Hours</td>
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<td>ENGL 102</td>
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**Year 2**

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<td>CIS 205</td>
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<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
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<td>BUS 301</td>
<td>Business Communication</td>
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<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
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<tr>
<td>BSTA 301</td>
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<td>PSYC 301</td>
<td>Statistics for Psychology</td>
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<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
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<td>Hours</td>
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<td>or History of Civilizations II - D2, SBH</td>
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<td>ACCT 202</td>
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<td>PHIL 323</td>
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<td>General Elective</td>
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</table>
Program Information

The Department of Economics provides a thorough education in economics to undergraduate students of the University for those with majors and minors in the department as well as students from other academic programs. A primary departmental objective is promoting the understanding of the economy through economic analysis of industry, non-profit institutions, and government at the micro- and macroeconomic levels. Students develop comprehension, reasoning, and quantitative skills through their study of domestic and global economic issues.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
<td>1, 2</td>
<td>38</td>
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<tr>
<td>Program/Major Requirements</td>
<td>57</td>
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<tr>
<td>Minimum Total Hours</td>
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</table>

1 To complete the degree in the **minimum number of hours** listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

2 College/School Requirements includes 6 hours of required courses that also cover General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the College of Business (p. 26) ensures admission to the BS in Economics.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement.

- MATH 180 Elements of Calculus - QR
- or MATH 205 Calculus I - QR
- ECON 201 Principles of Microeconomics - SB
- or ECON 202 Principles of Macroeconomics - SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
<td>1</td>
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</tbody>
</table>

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Business Economics (BUECBSE)

Unit: College of Business (BU) (http://www.louisville.edu/business)
Department: Economics (http://business.louisville.edu/economics)
Program/Major Requirements

**Economics Breadth**
- **ECON 301** Intermediate Microeconomics 3
- **ECON 302** Intermediate Macroeconomics 3
- **ECON 475** Senior Economics Seminar - CUE 3

**Electives in Economics** 15
**Electives in Business or Economics** 15
**Arts and Sciences Electives** 2 18

**Minimum Total Hours** 57

All course prerequisites must be followed.

Transfer students must take a minimum of 12 credit hours in the major within the College of Business.

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

**Code** | **Title** | **Hours**
--- | --- | ---
ECON 475 | Senior Economics Seminar - CUE | 3

Culminating Undergraduate Experience (Graduation requirement)

**Requirement fulfilled by completing:**
- **ECON 475** Senior Economics Seminar - CUE

College/School Requirements include six hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). General Education Oral Communication courses (COMM 111, COMM 112 or HON 214) are not program requirements, but are required as prerequisite for BUS 301.

2 MATH 205 or MATH 180 must be taken as a required math course for all Economic majors. Their prerequisite(s) may be used as Arts and Sciences elective(s).

3 Completes Quantitative Reasoning General Education.

4 Completes 3 hours of Social & Behavioral Sciences.

5 The following also will meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326

6 Students who satisfy General Education Requirements by courses defined by the program may require additional electives to complete the minimum hours for the degree.

Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
<td>1</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Science - S</td>
<td>3</td>
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</tr>
<tr>
<td>General Education: Cardinal Core Natural Science Lab - SL</td>
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**Total** 14

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>3-4</td>
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<tr>
<td>or MATH 180</td>
<td>Elements of Calculus - QR</td>
<td></td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Science - S</td>
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**Total** 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BUS 201</td>
<td>Career Development</td>
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<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
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<tr>
<td>ACCT 201</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
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**Total** 16

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BUS 301</td>
<td>Business Communication</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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</tbody>
</table>

**Total** 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>Economics Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>General Elective</td>
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**Total** 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 225</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
<td>3</td>
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</tbody>
</table>

**Total** 15
Chemical Engineering (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Chemical Engineering (CHE BCH)
Unit: Speed School of Engineering (http://louisville.edu/speed/chemical)

Department: Chemical Engineering (https://louisville.edu/speed/chemical)

Program Information

Students specializing in Chemical Engineering will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Chemical Engineering to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree.


Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31 (19-22 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
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<td>37</td>
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<tr>
<td>Program/Major Requirements</td>
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<td>77</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
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<td>123</td>
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</tbody>
</table>

1. Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

2. Any one course of PHIL 222, PHIL 225, PHIL 321, PHIL 323, or PHIL 328 satisfies the ChE Department Ethics Elective requirement. However, only PHIL 222 also counts for General Education content requirement in Arts and Humanities (AH).

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 32 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).
PHIL 222 Contemporary Ethical Problems - AH (optional, see note below)  

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

While any one course of PHIL 222, PHIL 225, PHIL 321, PHIL 323, or PHIL 328 satisfies the CHE Department Ethics Elective requirement, only PHIL 222 also counts for the General Education content requirement in Arts and Humanities (AH).

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Introduction to College Writing - WC 1,2</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Intermediate College Writing - WC 1,2</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL 1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S 1</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC 1</td>
<td>3</td>
</tr>
<tr>
<td>COMM 112</td>
<td>Business and Professional Speaking - OC 1</td>
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</tr>
<tr>
<td>COMM 115</td>
<td>Interpersonal Skills - OC 1</td>
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<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
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<tr>
<td>ENGR 205</td>
<td>Differential Equations for Engineering</td>
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</tr>
<tr>
<td>ENGR 307</td>
<td>Numerical Methods for Engineering</td>
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**Select one of the following:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
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</table>

### Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>IE 360</td>
<td>Probability and Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>IE 370</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AEC 360</td>
<td>Advanced Chemistry or Chemical Engineering Elective (see list below) 5, 6</td>
<td>3</td>
</tr>
<tr>
<td>AEC 360</td>
<td>Advanced Science or Chemical Engineering Elective (see list below) 5, 6</td>
<td>3</td>
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</tbody>
</table>

**Ethics Elective 7**

**Minimum Total Hours**

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
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</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
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</table>

### Advanced Chemistry or Chemical Engineering Electives

Select one course from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 441</td>
<td>Elements of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 445</td>
<td>Survey of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 450</td>
<td>Introduction to Computational Chemistry and Molecular Modeling</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 465</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 466</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 515</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 527</td>
<td>Introduction to Separations and Spectroscopy - WR</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Group Theory and its Chemical Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Candidates for the Bachelor of Science degree must be in good standing (university GPA ≥ 2.25) and must attain a grade point average of at least 2.25 for all courses used to satisfy degree requirements.
Advanced Science or Chemical Engineering Elective

Select one course from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
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</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 257</td>
<td>Introduction to Microbiology - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 350</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 441</td>
<td>Elements of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 445</td>
<td>Survey of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 450</td>
<td>Introduction to Computational Chemistry and Molecular Modeling</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 465</td>
<td>Physical Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 466</td>
<td>Physical Chemistry II</td>
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</tr>
<tr>
<td>CHEM 515</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 527</td>
<td>Introduction to Separations and Spectroscopy - WR</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Group Theory and its Chemical Applications</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 557</td>
<td>Bio-Organic Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 301</td>
<td>Geology for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 360</td>
<td>Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 363</td>
<td>Climate Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 365</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 564</td>
<td>Hydrology</td>
<td>3</td>
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<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

CHEM 300-level or higher non-required CHE course

1. This course is a General Education requirement for the program; see louisville.edu/provost/ger/ for the listing, by academic year, of AH/ D1/D2/SB/SBH Electives which satisfy the University-wide General Education requirements.

2. Students completing ENGL 105 in lieu of ENGL 101 and ENGL 102 satisfy the General Education and Engineering Fundamentals requirements for Written Communication. However, an additional 3-hr Written Communication (WC) course is needed to satisfy program credit hour requirements. A current list of acceptable WC courses is at louisville.edu/speed/academics/advising.

3. Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 32 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25). In order to meet departmental graduation requirements a student may accumulate no more than two D grades in CHE-prefixed courses. Any additional D grades beyond two must be repeated, in accordance with policies on course repetition. If a student accumulates more than one D in any one year of the program, it is strongly recommended that one or more of those courses be repeated to earn a better grade before proceeding to the next course in the sequence. For this policy, grades of D-minus, D, or D+ are all considered to be D grades. Note also a student who accumulates more than one D in a CHE course will not be permitted to enter Graduate Studies to pursue the MEng degree program until any courses with D grades in excess of one are repeated and a better grade earned.

4. An undergraduate student must receive permission from the department chair in order to enroll in a 600-level course. The course chosen to fulfill this elective requirement cannot be used to satisfy any other program or degree requirements. Note that while some courses are acceptable as either Science or Advanced Chemistry Electives, a single course cannot be used to meet both requirements as the curriculum requires that these two electives constitute a combined total of six (6) credit hours.

5. The course chosen to fulfill this elective requirement cannot be used to satisfy other program or degree requirements. Note that while some courses are acceptable as either Science or Advanced Chemistry Electives, a single course cannot be used to meet both requirements as the curriculum requires that these two electives constitute a combined total of six (6) credit hours.

6. Any course of PHIL 222, PHIL 225, PHIL 321, PHIL 323, or PHIL 328 satisfies the ChE Department Ethics Elective requirement. However, only PHIL 222 also counts for the General Education content requirement in Arts and Humanities (AH).

7. Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>CHE 205</td>
<td>Introduction to Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CHE 230</td>
<td>Computer Applications in Chemical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>CHE 253</td>
<td>Materials Science</td>
<td>3</td>
</tr>
</tbody>
</table>
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Chemistry (BA)
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Chemistry (CHM BA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Chemistry (http://louisville.edu/chemistry)

Program Information
The BA degree in chemistry is designed for students who want a more general education than is possible in the BS curriculum, while at the same time receiving a substantial background in chemistry. For several related fields, this program offers a broad pre-professional education.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>General Education Requirements</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>College/School Requirements</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>Program/Major Requirements</td>
<td></td>
</tr>
<tr>
<td>121</td>
<td>Minimum Total Hours</td>
<td></td>
</tr>
</tbody>
</table>

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.
Specific coursework information can be found on the Degree Requirements tab.

**Early Start Program (Jointly with the College of Education and Human Development)**

The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 148 credits are required for the dual degrees: 121 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by discipline. Students enrolling in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Students. All interested students must submit an application to the College of Education and Human Development (CEHD) MAT program and meet the admission criteria.

**Departmental Admission Requirements**

Admission to the major in Chemistry requires completion of CHEM 202 (or equivalent course from another institution) with a grade of C or better. The Application for Major form can be found on the A&S Advising Center web site: http://louisville.edu/artsandsciences/advising/apply.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- CHEM 201 General Chemistry I - S
- CHEM 207 Introduction to Chemical Analysis I - SL
- MATH 205 Calculus I - QR
- PHYS 221 Fundamentals of Physics I - S

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

**Arts & Sciences Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Electives in Humanities or Social Sciences</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
Flight Plan

Course Title Hours
Year 1 Fall
GEN 100 Student Success Center Orientation 1
or GEN 101 Arts and Sciences Orientation
CHEM 201 General Chemistry I - S 3
CHEM 207 Introduction to Chemical Analysis I - SL 1
CHEM 208 Introduction to Chemical Analysis II - SL 1
ENGL 101 Introduction to College Writing - WC 3
General Education: Cardinal Core Oral Communication - OC 3

Spring
CHEM 202 General Chemistry II - S 3
CHEM 209 Introduction to Chemical Analysis III 1
CHEM 210 Introduction to Chemical Analysis IV 1
ENGL 102 Intermediate College Writing - WC 3
General Education: Cardinal Core Arts & Humanities - AH 3
General Education: Cardinal Core Social & Behavioral Historical Perspective - SBH 3

Minimum Total Hours 121-122

Year 2 Fall
CHEM 341 Organic Chemistry I 3
CHEM 343 Organic Chemistry Laboratory I 2
PHYS 221 Fundamentals of Physics I - S 3
PHYS 223 Fundamentals of Physics Lab I - SL 1
MATH 205 Calculus I - QR 4
General Elective (300 level or above) 3

Spring
CHEM 342 Organic Chemistry II 3
CHEM 344 Organic Chemistry Laboratory II 2
PHYS 222 Fundamentals of Physics II - S 3
PHYS 224 Fundamentals of Physics Laboratory II - SL 1
MATH 206 Calculus II 4
General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 3

Year 3 Fall
CHEM 441 Elements of Physical Chemistry 3
or CHEM 465 Physical Chemistry I 3
CHEM 466 Chemistry Elective 2-3
General Education: Cardinal Core Social & Behavioral Science Elective (300 level or above) 3
Foreign Language 1 4
General Elective (300 level or above) 3

Spring
CHEM 470 Physical Chemistry Laboratory - WR 2
Chemistry Elective 3
General Education: Cardinal Core Social & Behavioral US Diversity - SBH 3
Foreign Language 2 4
General Elective 3

Year 4 Fall
CHEM 527 Introduction to Separations and Spectroscopy - WR 3
Chemistry Elective 3
General Education: Cardinal Core Social & Behavioral Diversity - SBD 3
General Elective 3

Spring
Chemistry Elective (CUE) 3
General Education: Cardinal Core Arts & Humanities Elective (300 level or above) 3
General Elective 3
General Elective 3
General Elective 2

Minimum Total Hours 121-122
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Chemistry (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 17).

Bachelor of Science in Chemistry (CHM BS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Chemistry (http://louisville.edu/chemistry)

Program Information
The BS in Chemistry degree program is designed to prepare professional chemists for industrial, governmental, academic, and research positions. This curriculum meets approved requirements for professional training.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>College/School Requirements</td>
<td></td>
<td>13-15</td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>41</td>
</tr>
<tr>
<td>Track Requirements</td>
<td></td>
<td>34-51</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>121</td>
</tr>
</tbody>
</table>

Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives may be required to complete the minimum hours for the degree. To complete the degree in the minimum number of hours listed for the Business track, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

Specific coursework information can be found on the Degree Requirements tab.

Early Start Program (Jointly with the College of Education and Human Development)
The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 148 credits are required for the dual degrees: 121 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by discipline. Students enrolling in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Students. All interested students must submit an application to the College of Education and Human Development (CEHD) MAT program and meet the admission criteria.

Departmental Admission Requirements
Admission to the major in Chemistry requires completion of CHEM 202 (or equivalent course from another institution) with a grade of C or better.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>CHEM 201 General Chemistry I - S</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207 Introduction to Chemical Analysis I - SL</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MATH 205 Calculus I - QR</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221 Fundamentals of Physics I - S (Business track) or PHYS 295 Introductory Laboratories I - SL</td>
<td></td>
<td>1-3</td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to
complete the minimum hours for the degree. To complete the Business track in the **minimum number of hours** listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Language**

1. **6-8**

**Electives in Humanities or Social Sciences at the 300-level or above**

6

**WR**—two approved courses at the 300 level or above

3

Minimum Total Hours

13-15

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 210</td>
<td>Introduction to Chemical Analysis IV</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 470</td>
<td>Physical Chemistry Laboratory - WR</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 527</td>
<td>Introduction to Separations and Spectroscopy - WR</td>
<td>3</td>
</tr>
</tbody>
</table>

**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following sequences:

8-10

**Sequence 1:**

- PHYS 221 Fundamentals of Physics I - S
- PHYS 222 Fundamentals of Physics II - S
- PHYS 223 Fundamentals of Physics Lab I - SL
- PHYS 224 Fundamentals of Physics Laboratory II - SL

**Sequence 2:**

- PHYS 295 Introductory Laboratories I - SL
- PHYS 296 Introductory Laboratories II - SL
- PHYS 298 Introductory Mechanics, Heat and Sound - S
- PHYS 299 Introductory Electricity, Magnetism and Light

**Track Requirements**

Students completing the BS in Chemistry may pursue the standard degree track or a specialized track in Biochemistry or a track in Business. Requirements for all three of these options are listed below.

**Chemistry BS (CHM BS)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 425</td>
<td>Instrumental and Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 465</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 466</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 445</td>
<td>Survey of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 545</td>
<td>Biochemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 515</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 528</td>
<td>Contemporary Methods of Synthesis and Analysis I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 529</td>
<td>Contemporary Methods of Synthesis and Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 590</td>
<td>Undergraduate Research or Cooperative Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective in Mathematics, Physics, or Chemistry at 300 level or above

3

Elective in Natural Sciences Division, other than Chemistry, at the 300 level or above

3

Minimum Total Hours

34

1. As many as 3 additional hours in Undergraduate Research in Chemistry may be applied toward the degree. With the consent of the instructor, graduate-level courses in Chemistry may also be used.
**Track in Biochemistry (CHM BS BIO)**

This degree track is designed to prepare students for a career that combines both chemistry and modern biology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Department of Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 465</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 466</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 547</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 546</td>
<td>Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Undergraduate Research or Cooperative Internship</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM or BIOL electives - see table below (at least 3 hours of which must be in Chemistry)</td>
<td>4-6</td>
<td></td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 39-41

1. Fulfills General Education requirement.
2. CHEM 470 plus 3 semester hours of another WR course will fulfill the WR requirement.
3. As many as 3 additional hours in Undergraduate Research in Chemistry may be applied toward the degree. With the consent of the instructor, graduate level courses in Chemistry may also be used.

**Chemistry or Biology Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 357</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 485</td>
<td>Microbial Physiology - CUE, WR</td>
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</tr>
<tr>
<td>BIOL 358</td>
<td>Microbiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 400</td>
<td>Histology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 465</td>
<td>Principles of Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 541</td>
<td>Medicinal Plant Biochemistry - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 542</td>
<td>Gene Structure and Function - WR</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 425</td>
<td>Instrumental and Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 430</td>
<td>Practicum in Chemistry Education - CUE</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 515</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 528</td>
<td>Contemporary Methods of Synthesis and Analysis I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 529</td>
<td>Contemporary Methods of Synthesis and Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 557</td>
<td>Bio-Organic Phenomena</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 51

**Track in Business (CHM BS BUS)**

This degree track combines a general program in chemistry with a fundamental program in business. The curriculum is designed to prepare chemists for industrial and governmental positions.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Department of Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 441</td>
<td>Elements of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 465</td>
<td>Physical Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM electives at 300 level or above (other than Independent Study)</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250</td>
<td>Introduction to Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 300</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td>BSTA 301</td>
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Elective in the School of Business at the 300-level or above

**Culminating Undergraduate Experience (For students admitted Summer 2014 or later)**

Requirement fulfilled by completing one of the following approved CUE courses:

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<tbody>
<tr>
<td>CHEM 390</td>
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<td>Contemporary Methods of Synthesis and Analysis I - CUE</td>
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Minimum Total Hours: 51

**Chemistry Electives**

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<td>Survey of Biochemistry - CUE</td>
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CHEM 492  Undergraduate Research  1-3
CHEM 420  Cooperative Internship in Chemistry - WR  1-3

1. Fulfills General Education requirement.
2. CHEM 470 plus 3 semester hours of another WR course will fulfill the WR requirement.
3. See Chemistry Electives below. With the consent of the instructor(s), graduate level courses in Chemistry may also be used to fulfill these requirements.
4. Credit may not be earned for CHEM 445 and CHEM 545.

Flight Plan

Chemistry

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**Hours**: 15

Spring

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**Hours**: 15

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**Hours**: 16-17

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Spring

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**Hours**: 14

Year 4

Fall

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**Hours**: 15

Minimum Total Hours: 121-123

Track in Biochemistry

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**Hours**: 15

Spring

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**Hours**: 15

Fall

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**Hours**: 16

Spring

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**Hours**: 16

Fall

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**Hours**: 3
Track in Business

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<td>Business Elective (300 level)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>121</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on “View my Academic Advisement Report” to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on “Create a What-if Advisement Report.”

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Civil Engineering (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Civil Engineering (CE BCE)
Unit: Speed School of Engineering (SS) (http://speed.louisville.edu/cms/content.php)
Department: Civil Engineering (https://louisville.edu/speed/civil)

Program Information
Students specializing in Civil Engineering will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Civil & Environmental Engineering - nine semesters in Departmental Studies to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree.


Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>1</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 112</td>
<td>Business and Professional Speaking - OC</td>
<td>3</td>
</tr>
</tbody>
</table>

Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 27 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>1</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 112</td>
<td>Business and Professional Speaking - OC</td>
<td>3</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 151</td>
<td>Engineering Graphics Technology</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Differential Equations for Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>
Candidates for the Bachelor of Science degree must be in good standing (university GPA ≥ 2.25) and must attain a grade point average of at least 2.25 for all courses used to satisfy degree requirements.

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 205</td>
<td>Mechanics I: Statics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 254</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>CEE 255</td>
<td>Mechanics of Materials Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CEE 260</td>
<td>Civil Engineering Field Measurements</td>
<td>2</td>
</tr>
<tr>
<td>CEE 261</td>
<td>Civil Engineering Field Measurements Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CEE 288</td>
<td>Civil and Environmental Engineering Cooperative Education Seminar</td>
<td>0</td>
</tr>
<tr>
<td>CEE 289</td>
<td>Civil and Environmental Engineering Cooperative Education I</td>
<td>1</td>
</tr>
<tr>
<td>CEE 309</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CEE 322</td>
<td>Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CEE 370</td>
<td>Engineering Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 371</td>
<td>Engineering Hydraulics Lab</td>
<td>1</td>
</tr>
<tr>
<td>CEE 389</td>
<td>Civil and Environmental Engineering Cooperative Education II</td>
<td>1</td>
</tr>
<tr>
<td>CEE 401</td>
<td>Civil Engineering Professional Practice</td>
<td>2</td>
</tr>
<tr>
<td>CEE 421</td>
<td>Fundamentals of Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CEE 422</td>
<td>Fundamentals of Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CEE 450</td>
<td>Geomechanics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 451</td>
<td>Geomechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CEE 452</td>
<td>Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CEE 460</td>
<td>Transportation Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CEE 470</td>
<td>Surface Water Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CEE 471</td>
<td>Water Supply and Sewerage</td>
<td>3</td>
</tr>
<tr>
<td>CEE 480</td>
<td>Civil &amp; Environmental Engineering Capstone Design - CUE (CUE)</td>
<td>3</td>
</tr>
<tr>
<td>CEE 489</td>
<td>Civil Engineering Cooperative Education III</td>
<td>1</td>
</tr>
<tr>
<td>CEE 530</td>
<td>Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>CEE 540</td>
<td>Geomechanics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 550</td>
<td>Fundamentals of Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CEE 560</td>
<td>Fundamentals of Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CEE 570</td>
<td>Geomechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CEE 580</td>
<td>Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CEE 590</td>
<td>Transportation Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CEE 600</td>
<td>Surface Water Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CEE 610</td>
<td>Water Supply and Sewerage</td>
<td>3</td>
</tr>
<tr>
<td>CEE 620</td>
<td>Civil &amp; Environmental Engineering Capstone Design - CUE (CUE)</td>
<td>3</td>
</tr>
<tr>
<td>CEE 630</td>
<td>Civil Engineering Cooperative Education III</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>General Education: Cardinal Core Arts &amp; Humanities, Social &amp; Behavioral Sciences, or Social &amp; Behavioral Sciences Historical Persepective US Diversity - AH1, SB1, or SBH1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Numerical Methods for Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 307</td>
<td>Numerical Methods for Engineering</td>
<td>2</td>
</tr>
<tr>
<td>CEE 480</td>
<td>Civil &amp; Environmental Engineering Capstone Design - CUE</td>
<td>3</td>
</tr>
</tbody>
</table>

1. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

2. This course is a General Education requirement for the program; see louisville.edu/provost/get/ for the listing, by academic year, of AH/ D1/D2/SB/SBH Electives which satisfy the University-wide General Education requirements.

3. Students completing ENGL 105 in lieu of ENGL 101 and ENGL 102 satisfy the General Education and Engineering Fundamentals requirements for Written Communication. However, an additional 3-hr honors Written Communication (WC) course is needed to satisfy program credit hour requirements. A current list of acceptable WC courses is at louisville.edu/speed/academics/advising.

4. Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 27 semester hours in Engineering Fundamentals. In addition, the student must be in good standing with (university GPA ≥ 2.25).
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

**Communication (BA)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Communication (COMMBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Communication (http://comm.louisville.edu/department)

**Program Information**

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Department of Communication offers both a Bachelor of Arts degree and a Bachelor of Science degree in Communication.

A Bachelor of Arts degree and a Bachelor of Science degree are equally valued. Both offer the students who earn them the opportunity to continue their education at the master's degree level if they are so inclined. But, the two tracks do tend to hone different strengths. The coursework required for a Bachelor of Arts degree generally allows students to sharpen their oral and written communication skills. The demands of a Bachelor of Science degree include sharpening basic Communication skills as well as developing analytical skills relevant to Communication in a more in-depth manner.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

**Degree Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>19</td>
</tr>
</tbody>
</table>

1. [http://catalog.louisville.edu/undergraduate/general-education-requirements](http://catalog.louisville.edu/undergraduate/general-education-requirements)
2. [http://louisville.edu/online/programs](http://louisville.edu/online/programs)
Program/Major Requirements

Minimum Total Hours: 121

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

2. 3 hours of College/School requirement is satisfied in Natural Science requirement in Program/Major supporting coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the BA in Communication requires:

1. Completion of COMM 201 with a minimum grade of C
2. A minimum cumulative grade point average of 2.0
3. A minimum grade point average of 2.0 on courses in the major

The application for major form can be found on the Arts and Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements)%C2%B9">http://catalog.louisville.edu/undergraduate/general-education-requirements)¹</a></td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- COMM 201 Introduction to Communication - SB

Some other courses approved as options for satisfying program requirements (e.g., MATH 109) may also satisfy General Education requirements.

¹All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

Arts & Sciences Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100 or GEN 101</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences at the 300-level or above</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 19

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 201</td>
<td>Introduction to Communication - SB</td>
<td>3</td>
</tr>
<tr>
<td>COMM 303</td>
<td>Introduction to Communication Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 304</td>
<td>Argument in Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>COMM 305</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 315</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 316</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>COMM elective at 200 level or above</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMM electives at 300 level or above</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>COMM electives at 400 level or above</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMM CUE course (see list below)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Supporting Courses

Statistics/Quantitative Methods

Select one of the following: ⁵

- MATH 109 Elementary Statistics - QR
- BSTA 301 Business Statistics
- CJ 326 Quantitative Analysis - QR
- HSS 377 Introduction to Statistics in Health and Human Performance
- PAS 408 Research Methods in Pan-African Studies - WR
- POLS 390 Contemporary Political Research
- PSYC 301 Statistics for Psychology
- SOC 301 Introduction to Social Statistics

Social Science Elective in Human Behavior

Select one of the following: ⁶

- ANTH 201 Introduction to Cultural Anthropology - D2, SB
- ANTH 309/ WGST 300 Introduction to Sex, Gender and Culture
- ANTH 310/ PAS 368 Race, Culture, Identity
- CJ 200 Crime and Justice in the United States - SB
- CJ 201 Law Enforcement in the United States - SB
- CJ 202 Corrections in the United States - SB
- GEOG 324 Race and Place
- HIST 321 Black Culture and U.S. Democracy
- HIST 326 History of Childhood in America - D1, SBH, WR
- HSS 364 Women's Health Issues - D1, SB
- LALS 310 Introduction to Latin American Studies - D2, SB
- LALS 317 Social Sciences Special Topics in Latino Studies
- PAS 200 Introduction to Pan-African Studies - D1, SB
- PAS 301 Social Sciences Special Topics in Pan-African Studies
- PSYC 201 Introduction to Psychology - SB
- SOA 201 Introduction to Sociology - SB
- SOA 202 Social Problems - D1, SB
- SOA 203 Introduction to Social Psychology - SB
- SOA 210 Race in the United States - D1, SB
- SOA 305 Urban Sociology
- SOA 325 Sociology of Human Sexuality
- SOA 327/ WGST 313 Sociology of Gender
- WGST 201 Women in American Culture - D1, SB
- WGST 301 Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies

Natural Science Elective in Human Behavior, Development, Environment or Health | 3
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 306</td>
<td>Human Biological Variation</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Introduction to Chemistry - S</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemistry for Health Professionals - S</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
</tr>
<tr>
<td>GEOS 200</td>
<td>The Global Environment - S</td>
</tr>
<tr>
<td>GEOS 220</td>
<td>Contemporary Issues in Meteorology - S</td>
</tr>
<tr>
<td>GEOS 360</td>
<td>Global Environmental Change</td>
</tr>
<tr>
<td>GEOS 363</td>
<td>Climate Science</td>
</tr>
<tr>
<td>HSS 202</td>
<td>Human Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>HSS 302</td>
<td>Nutrition in Healthy Living</td>
</tr>
<tr>
<td>HSS 303</td>
<td>Human Nutrition</td>
</tr>
<tr>
<td>PHYS 107</td>
<td>Elementary Astronomy - S</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>Elements of Physics - B</td>
</tr>
<tr>
<td>PSYC 344</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td>SW 203</td>
<td>Human Biology for Social Sciences</td>
</tr>
</tbody>
</table>

Social Science electives (other than Communication) with 12 hours at the 300 level or above

Minimum Electives

Minimum Total Hours

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. COMM 111, COMM 112, and COMM 115 are not counted in computing the 40 hours for a Communication major.

3 hours of College/School requirement is satisfied in Natural Science requirement in Program/Major supporting coursework.

At least 50 of the total minimum hours required must be at the 300 level or above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or GEN 101 or Arts and Sciences Orientation</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC or COMM 111 or Business and Professional Speaking - OC or COMM 115 or Interpersonal Skills - OC</td>
</tr>
<tr>
<td>COMM 201</td>
<td>Introduction to Communication - SB or another Natural Sciences course approved by an advisor</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S or another Natural Sciences course approved by an advisor</td>
<td></td>
</tr>
</tbody>
</table>

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

**Flight Plan**

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fall</td>
<td>GEN 100 Student Success Center Orientation or ENGL 101 Introduction to College Writing - WC or COMM 111 Introduction to Public Speaking - OC or COMM 115 or Interpersonal Skills - OC or COMM 201 Introduction to Communication - SB or General Education: Cardinal Core Natural Sciences - S or Foreign Language 2</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>ENGL 102 Intermediate College Writing - WC or COMM 111 Introduction to Public Speaking - OC or COMM 112 or Business and Professional Speaking - OC or COMM 115 or Interpersonal Skills - OC or COMM 201 Introduction to Communication - SB or General Education: Cardinal Core Natural Sciences - S or Foreign Language 2</td>
<td>13-15</td>
</tr>
<tr>
<td>2</td>
<td>Fall</td>
<td>COMM 305 Introduction to Mass Communication or General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH or General Education: Cardinal Core Natural Sciences - S or General Education: Cardinal Core Natural Sciences Lab - SL or Foreign Language 3</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>COMM 304 Argument in Everyday Life or Statistics/Quantitative Methods Elective or Humanities or Natural Science Elective (200 level or above) or Communication Elective (200 level or above) or Foreign Language 4 (if needed) or General Elective</td>
<td>13-15</td>
</tr>
<tr>
<td>3</td>
<td>Fall</td>
<td>COMM 303 Introduction to Communication Technologies or COMM 315 Introduction to Interpersonal Communication or General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2 or Humanities or Natural Science Elective (300 level or above) or Social Science Elective in Human Behavior</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>COMM 316 Research Methods</td>
<td>13-15</td>
</tr>
</tbody>
</table>
Communication Elective (300 level or above) 3
Communication WR Elective (300 level or above) 3
Social Science Elective (300 level or above) 3
Natural Science Elective in Human Behavior, Development, Environment or Health Elective 3

| Hours | 15 |

Year 4

Fall
Communication Elective (300 level or above) 3
Communication Elective & WR (400 level or above) 3
Social Science Elective (300 level or above) 3
Social Science Elective (300 level or above) 3
Social Science Elective (300 level or above) 3
General Elective 3

| Hours | 18 |

Spring
Communication CUE course 3
Communication Elective (300 level or above) 3
Social Science Elective (300 level or above) 3
Social Science Elective (300 level or above) 3
General Elective 3

| Hours | 15 |

Minimum Total Hours 121-125

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu/psp/psp/EMPLOYEE/EMPL/h/?tab=L_STUDENT_SERVICES) Once you're logged into your ULink account, click on the Student Services tab, then click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area. To create a What-if report, click on "Create a What-if Advisement Report."

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

Communication (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Communication (COMMBS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Communication (http://comm.louisville.edu/department)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Department of Communication offers both a Bachelor of Arts and a Bachelor of Science degree in Communication.

A Bachelor of Arts degree and a Bachelor of Science degree are equally valued. Both offer the students who earn them the opportunity to continue their education at the master’s degree level if they are so inclined. But, the two tracks do tend to hone different strengths. The coursework required for a Bachelor of Arts degree generally allows students to sharpen their oral and written communication skills. The demands of a Bachelor of Science degree include sharpening basic Communication skills as well as developing analytical skills relevant to Communication in a more in-depth manner.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/bachelors/bachelor-of-science-in-communication).

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>13:15</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>75:77</td>
</tr>
</tbody>
</table>

Minimum Total Hours 121

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

2 Includes 9-11 hours of electives

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the BS program in Communication requires:

1. Completion of COMM 201 with a minimum grade of C;
2. A minimum cumulative grade point average of 2.5; and
3. A minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

COMM 201 Introduction to Communication - SB
Some courses options for meeting other program requirements may also satisfy General Education requirements.

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences at the 300-level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Total Hours: 13-15**

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 201</td>
<td>Introduction to Communication - SB</td>
<td>3</td>
</tr>
<tr>
<td>COMM 303</td>
<td>Introduction to Communication Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 304</td>
<td>Argument In Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>COMM 305</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 315</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 316</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>COMM 417</td>
<td>Senior Communication Internship - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 302</td>
<td>Advanced Speech Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 320</td>
<td>Newswriting - WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 323</td>
<td>Magazine and Feature Writing - WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 344</td>
<td>Strategic Communication Writing - WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM elective at 200 level or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMM electives at 300 level or above</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>COMM electives at 400 level or above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

### Supporting Courses

**Statistics/Quantitative Methods**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td>3</td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
<td>3</td>
</tr>
<tr>
<td>PAS 408</td>
<td>Research Methods in Pan-African Studies - WR</td>
<td>3</td>
</tr>
<tr>
<td>HSS 377</td>
<td>Introduction to Statistics in Health and Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>POLS 390</td>
<td>Contemporary Political Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 203</td>
<td>Archaeology of Human History - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 309/ WGST 300</td>
<td>Sex, Gender and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 310/ PAS 368</td>
<td>Race, Culture, Identity</td>
<td>3</td>
</tr>
<tr>
<td>CJ 200</td>
<td>Crime and Justice in the United States - SB</td>
<td>3</td>
</tr>
<tr>
<td>CJ 201</td>
<td>Law Enforcement in the United States - SB</td>
<td>3</td>
</tr>
<tr>
<td>CJ 202</td>
<td>Corrections in the United States - SB</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 324</td>
<td>Race and Place</td>
<td>3</td>
</tr>
<tr>
<td>HIST 321</td>
<td>Black Culture and U.S. Democracy</td>
<td>3</td>
</tr>
<tr>
<td>HIST 326</td>
<td>History of Childhood in America - D1, SBH, WR</td>
<td>3</td>
</tr>
<tr>
<td>HSS 364</td>
<td>Women’s Health Issues - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>LALS 310</td>
<td>Introduction to Latin American Studies - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>LALS 317</td>
<td>Social Sciences Special Topics in Latino Studies</td>
<td>3</td>
</tr>
<tr>
<td>PAS 200</td>
<td>Introduction to Pan-African Studies - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>PAS 301</td>
<td>Social Sciences Special Topics in Pan-African Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>3</td>
</tr>
<tr>
<td>SOC 201</td>
<td>Introduction to Sociology - SB</td>
<td>3</td>
</tr>
<tr>
<td>SOC 202</td>
<td>Social Problems - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>SOC 203</td>
<td>Introduction to Social Psychology - SB</td>
<td>3</td>
</tr>
<tr>
<td>SOC 210</td>
<td>Race in the United States - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>SOC 305</td>
<td>Urban Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 325</td>
<td>Sociology of Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOC 327/ WGST 313</td>
<td>Sociology of Gender</td>
<td>3</td>
</tr>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>WGST 301</td>
<td>Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

### Natural Sciences Elective in Human Behavior, Development, Environment, or Health

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 306</td>
<td>Human Biological Variation</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Introduction to Chemistry - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemistry for Health Professionals - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 200</td>
<td>The Global Environment - S</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 220</td>
<td>Contemporary Issues in Meteorology - S</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 360</td>
<td>Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 363</td>
<td>Climate Science</td>
<td>3</td>
</tr>
<tr>
<td>HSS 202</td>
<td>Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HSS 302</td>
<td>Nutrition in Healthy Living</td>
<td>3</td>
</tr>
<tr>
<td>HSS 303</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 107</td>
<td>Elementary Astronomy - S</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>Elements of Physics - B</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 344</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SW 203</td>
<td>Human Biology for Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 306</td>
<td>Social Science Electives (other than Communication)</td>
<td>6</td>
</tr>
</tbody>
</table>

University of Louisville
Minimum Electives 10
Minimum Total Hours 75-77

Only 60 hours in the major department may be applied toward the Bachelor of Science degree. COMM 111, COMM 112, and COMM 115 are not counted in computing the 60 hours for a Communication major.

At least 50 of the total minimum hours required must be at the 300 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Culminating Undergraduate Experience (Graduation requirement)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Requirement fulfilled by completing one of the following:</td>
<td></td>
</tr>
<tr>
<td>COMM 402</td>
<td>Independent Research in Communication - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 417</td>
<td>Senior Communication Internship - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 427</td>
<td>Case Studies in Communication - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 436</td>
<td>Health Communication Campaign Planning - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 437</td>
<td>Mass Media and Close Relationships - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 445</td>
<td>Strategic Communication Campaigns - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 465</td>
<td>Special Topics in Communication Service Learning - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 481</td>
<td>Senior Practicum - CUE</td>
<td>3</td>
</tr>
<tr>
<td>COMM 498</td>
<td>Senior Thesis - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 505</td>
<td>Perspectives on Religion and Media - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 506</td>
<td>Ethical Problems in Communication - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 565</td>
<td>Special Topics in Communication Service Learning - CUE</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Completion of the second semester of a single foreign language; hours will vary depending on the language taken
2. In addition to courses counted toward General Education
3. May be incorporated into other degree requirements
4. Excluding COMM 417.
5. In addition to courses counted toward General Education.
6. Or another statistics elective approved by an advisor
7. Or another Social Science elective approved by an advisor
8. Or another Natural Sciences elective approved by an advisor
9. Some credit hours from the General Education Requirements may be satisfied by courses that also satisfy program requirements, in which case additional electives will be required to complete the minimum hours for the degree.

Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AH02</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 1</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>

| Spring   |                                                     |       |
| ENGL 102 | Intermediate College Writing - WC                   | 3     |

| Year 2   |                                                     |       |
| Fall     |                                                     |       |
| COMM 305 | Introduction to Mass Communication                    | 3     |
| General Education: Cardinal Core Social & Behavioral Sciences - SB | 3 |
| General Education: Cardinal Core Social & Behavioral Sciences Historical | 3 |
| General Education: Cardinal Core Natural Sciences - S | 3 |
| General Education: Cardinal Core Natural Sciences Lab - SL | 1 |
| General Elective |                                             | 3     |

| Spring   |                                                     |       |
| COMM 302 | Advanced Speech Communication or COMM 319 or Debate  | 3     |
| COMM 304 | Argument In Everyday Life                           | 3     |
| General Education: Cardinal Core Arts & Humanities US Diversity - AHD1 | 3 |
| Statistics/Quantitative Methods Elective | 3 |
| Humanities or Natural Science WR Elective (300 level or above) | 3 |

| Year 3   |                                                     |       |
| Fall     |                                                     |       |
| COMM 303 | Introduction to Communication Technologies          | 3     |
| COMM 315 | Introduction to Interpersonal Communication        | 3     |
| Humanities or Natural Science Elective (300 level or above) | 3 |
| Social Science Elective in Human Behavior | 3 |
| Social Science Elective |                        | 3     |

| Spring   |                                                     |       |
| COMM 316 | Research Methods                                   | 3     |
| Communication Elective (200 level or above) | 3 |
| Communication Elective (300 level or above) | 3 |
| Social Science Elective |                        | 3     |
| Natural Science Elective in Human Behavior, Development, Environment, or Health | 3 |

| Year 4   |                                                     |       |
| Fall     |                                                     |       |
| Select one of the following: |                                        |       |
| COMM 320 | Newswriting - WR                                    | 3     |
| COMM 323 | Magazine and Feature Writing - WR                   | 3     |
| COMM 344 | Strategic Communication Writing - WR                | 3     |
| Communication WR Elective (400 level or above) | 3 |
| Communication Elective (300 level or above) | 3 |
| Communication Elective (300 level or above) | 3 |
| Social Science Elective |                        | 3     |

| Spring   |                                                     |       |
| COMM 417 | Senior Communication Internship - CUE               | 3     |
| Communication Elective (300 level or above) | 3 |
| Communication Elective (400 level or above) | 3 |
| General Elective |                                      | 3     |
| General Elective |                              | 3     |
| General Elective (if needed) |            | 3     |

| Minimum Total Hours | 121-124 |
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

### Computer Engineering and Computer Science (BS)

This program was approved for students entering the university in the Summer 2018—Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Computer Engineering and Computer Science (CECSBCC)**

Unit: Speed School of Engineering (SS) (http://louisville.edu/speed)
Department: Computer Engineering and Computer Science (http://louisville.edu/speed/computer)

### Program Information

Students specializing in Computer Engineering & Computer Science will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Computer Engineering & Computer Science - nine semesters in Departmental Studies to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum includes a cooperative education component.


### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 112</td>
<td>Business and Professional Speaking - OC</td>
<td></td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
<td></td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

### General Education Requirements

The following courses are required by the program and satisfy the respective General Education Requirement(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 112</td>
<td>Business and Professional Speaking - OC</td>
<td></td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
</tbody>
</table>

Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements

Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).

### College/School Requirements

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
</tbody>
</table>
Candidates for the Bachelor of Science degree must be in good standing (university GPA ≥ 2.25) and must attain a grade point average of at least 2.25 for all courses used to satisfy degree requirements.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 101 or HIST 102</td>
<td>History of Civilizations I - D2, SBH or History of Civilizations II - D2, SBH</td>
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<tr>
<td>CECS 288</td>
<td>Computer Engineering and Computer Science Cooperative Education Seminar</td>
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<tr>
<td>CECS 302</td>
<td>Data Structures</td>
<td>3</td>
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<tr>
<td>ECE 210</td>
<td>Logic Design</td>
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<tr>
<td>ECE 211</td>
<td>Logic Design Laboratory</td>
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<tr>
<td>ECE 252</td>
<td>Introduction to Electrical Engineering</td>
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<tr>
<td>ENGR 205</td>
<td>Differential Equations for Engineering</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>15</strong></td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
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<tr>
<td>CECS 289</td>
<td>Computer Engineering and Computer Science Cooperative Education I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>1</strong></td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CECS 310</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMM 111 or COMM 112</td>
<td>Introduction to Public Speaking - OC or Business and Professional Speaking - OC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities, Social &amp; Behavioral Sciences, or Social &amp; Behavioral Sciences Historical Perspective - AH, SB, or SBH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities, Social &amp; Behavioral Sciences, or Social &amp; Behavioral Sciences Historical Perspective - AH, SB, or SBH</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>12</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td></td>
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<tr>
<td>CECS 389</td>
<td>Computer Engineering and Computer Science Cooperative Education II</td>
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</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>1</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>CECS 311</td>
<td>Ethics, Social, and Legal Aspects on the Electronic Frontier</td>
<td>3</td>
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<tr>
<td>CECS 412</td>
<td>Introduction to Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 419</td>
<td>Introduction to Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 330</td>
<td>Linear Algebra for Engineering</td>
<td>2</td>
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<tr>
<td>IE 350</td>
<td>Probability and Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>IE 370</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>17</strong></td>
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<tr>
<td><strong>Summer</strong></td>
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<tr>
<td>CECS 489</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Year 4</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<td></td>
</tr>
<tr>
<td>CECS 420</td>
<td>Design of Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 504</td>
<td>Automata Theory</td>
<td>3</td>
</tr>
<tr>
<td>CECS 525</td>
<td>Microcomputer Design</td>
<td>4</td>
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<tr>
<td>CECS 525</td>
<td>Introduction to Databases (CECS Elective)</td>
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<tr>
<td>CECS Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>16</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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</tr>
<tr>
<td>CECS 516</td>
<td>Fundamentals of Computer Communications and Networks</td>
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<tr>
<td>CECS 550</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CECS 596</td>
<td>CECS Capstone Design - CUE</td>
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</tr>
<tr>
<td>CECS Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

**Criminal Justice (BS)**

![Criminal Justice](https://www.louisville.edu/justice)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Criminal Justice (JA BS)**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Criminal Justice (http://louisville.edu/justice)

**Program Information**

*This program can be completed in a traditional classroom format or entirely online* (http://louisville.edu/online/programs).

The Bachelor of Science in Criminal Justice program is designed to prepare students for a career in the criminal justice system or for further education through a graduate program. Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

**Degree Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education Requirements</strong> (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td><strong>College/School Requirements</strong></td>
<td></td>
<td><strong>13-15</strong></td>
</tr>
</tbody>
</table>
Program/Major Requirements 1
Minimum Total Hours 121

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BS-MS in Criminal Justice

The Accelerated BS-MS degree program in Criminal Justice is designed to allow an undergraduate student to earn graduate hours in Criminal Justice during Senior year. Students will be allowed to earn up to 9 hours that can be applied to both their undergraduate degree (BS) and their graduate degree (MS) in Criminal Justice.

These students could enroll in a combination of the following core courses from the MS program in Criminal Justice:

- CJ 621 The Criminal Justice System
- CJ 643 Theories of Crime and Delinquency
- CJ 649 Applied Statistics in Criminal Justice
- CJ 650 Research Methods

Students in the Accelerated BS-MS program in Criminal Justice may only apply their graduate credits earned as an undergraduate at UofL toward the degree program.

Students must apply during the first or second semester of the Junior year (usually when they have earned between 70-80 hours). Applicants must have at least a 3.0 GPA at the time of application.

Departmental Admission Requirements

There are no specific admission requirements for this degree plan.

The application for major form can be found on the A&S Advising Center web site: louisville.edu/artsandsciences/advising/apply.

Accelerated BS-MS in Criminal Justice

Students apply during the first or second semester of the Junior year (usually when they have earned between 70-80 hours), and must have a 3.0 GPA at the time of application.

Applicants must submit the following to the Graduate Admissions Office:

- A formal graduate application for admission to the School of Interdisciplinary & Graduate Studies, University of Louisville (http://louisville.edu/graduate)
- Application fee
- Two (2) letters of recommendation from individuals who can speak to the applicant’s academic or professional capabilities
- Scores on the General Test Section of the Graduate Record Examination (GRE)
- An original essay identifying the applicant’s background, professional interest and goals and the applicant’s motivation an potential for graduate work

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- CJ 200 Crime and Justice in the United States - SB (or CJ 201 or CJ 202)
- CJ 326 Quantitative Analysis - QR

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
</tr>
<tr>
<td>Foreign Language 1</td>
<td>6-8</td>
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<tr>
<td>Electives in Humanities or Natural Sciences at 300 level or above 2</td>
<td>6</td>
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<tr>
<td>WR—two approved courses at the 300 level or above 3</td>
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</table>

Minimum Total Hours 13-15

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Department of Criminal Justice</td>
</tr>
<tr>
<td>CJ 200</td>
<td>Crime and Justice in the United States - SB 4</td>
</tr>
<tr>
<td>CJ 201</td>
<td>Law Enforcement in the United States - SB 4</td>
</tr>
<tr>
<td>CJ 202</td>
<td>Corrections in the United States - SB 4</td>
</tr>
<tr>
<td>CJ 305</td>
<td>Criminal Behavior</td>
</tr>
<tr>
<td>CJ 306</td>
<td>Criminal Procedure</td>
</tr>
<tr>
<td>CJ 325</td>
<td>Research Design</td>
</tr>
<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR 4</td>
</tr>
<tr>
<td>CJ 360</td>
<td>Juvenile Justice</td>
</tr>
<tr>
<td>CJ 395</td>
<td>Criminal Law and Evidence</td>
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<tr>
<td>CJ 485</td>
<td>Seminar in Criminal Justice - CUE, WR 5</td>
</tr>
</tbody>
</table>

Criminal Justice Electives (see approved list below) 6 | 24 |

Minimum Electives 7 | 21-23 |

Minimum Total Hours 75-77

Code | Title |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Culminating Undergraduate Experience (Graduation requirement)</td>
</tr>
<tr>
<td>CJ 485</td>
<td>Seminar in Criminal Justice - CUE, WR 5</td>
</tr>
</tbody>
</table>

Students must have a minimum of 50 hours at the 300 level or above.

Approved Criminal Justice Electives

A minimum 15 hours must be in Criminal Justice
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 300</td>
<td>Career Development and Cultural Intelligence - D1, SB</td>
</tr>
<tr>
<td>CJ 301</td>
<td>Introduction to Computer Forensics and the Analysis of Digital Media</td>
</tr>
<tr>
<td>CJ 335</td>
<td>Court Administration</td>
</tr>
<tr>
<td>CJ 352</td>
<td>Sex Crimes</td>
</tr>
<tr>
<td>CJ 354</td>
<td>Crime and the Media</td>
</tr>
<tr>
<td>CJ 355</td>
<td>Criminalistics</td>
</tr>
<tr>
<td>CJ 356</td>
<td>Crime Prevention</td>
</tr>
<tr>
<td>CJ 358</td>
<td>Private Security Management</td>
</tr>
<tr>
<td>CJ 365</td>
<td>Community Corrections</td>
</tr>
<tr>
<td>CJ 366</td>
<td>Introduction to Internet and Network Investigations</td>
</tr>
<tr>
<td>CJ 370</td>
<td>Police Administration</td>
</tr>
<tr>
<td>CJ 390</td>
<td>Criminal Court Procedures</td>
</tr>
<tr>
<td>CJ 400</td>
<td>Legal Issues in Corrections</td>
</tr>
<tr>
<td>CJ 403</td>
<td>Prisons and Jails in the United States</td>
</tr>
<tr>
<td>CJ 405</td>
<td>Crimes Against the Elderly</td>
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<tr>
<td>CJ 406</td>
<td>Crime Victims and Victimization</td>
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<tr>
<td>CJ 415</td>
<td>Substance Abuse, Crime and Criminal Justice</td>
</tr>
<tr>
<td>CJ 420</td>
<td>Computer Applications in Criminal Justice</td>
</tr>
<tr>
<td>CJ 421</td>
<td>Organized Crime</td>
</tr>
<tr>
<td>CJ 425</td>
<td>Profiling Violent Crimes</td>
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<tr>
<td>CJ 426</td>
<td>Violence in the United States: The Criminal Justice Response</td>
</tr>
<tr>
<td>CJ 430</td>
<td>Environmental Crime</td>
</tr>
<tr>
<td>CJ 435</td>
<td>Comparative Criminal Justice Systems - WR</td>
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<tr>
<td>CJ 440</td>
<td>Human Trafficking: Critical Thinking About Modern-Day Slavery</td>
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<tr>
<td>CJ 445</td>
<td>Computer and Electronic Crime</td>
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<tr>
<td>CJ 450</td>
<td>Internship</td>
</tr>
<tr>
<td>CJ 460</td>
<td>Correctional Treatment and Rehabilitation</td>
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<tr>
<td>CJ 471</td>
<td>Police Administration</td>
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<tr>
<td>CJ 474</td>
<td>Police Supervision</td>
</tr>
<tr>
<td>CJ 493</td>
<td>Police and the Community</td>
</tr>
<tr>
<td>CJ 495</td>
<td>Independent Study/Directed Readings</td>
</tr>
<tr>
<td>CJ 496</td>
<td>Special Topics in Criminal Justice</td>
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<tr>
<td>CJ 497</td>
<td>Honors Seminar</td>
</tr>
<tr>
<td>CJ 498</td>
<td>Honors Seminar - WR</td>
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<tr>
<td>CJ 499</td>
<td>Honors Thesis - WR</td>
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<tr>
<td>CJ 500</td>
<td>Crime and Criminal Justice in the Cinema</td>
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<tr>
<td>CJ 505</td>
<td>International Terrorism</td>
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<td>CJ 509</td>
<td>Crime Analysis</td>
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<td>CJ 516</td>
<td>Juvenile Justice Issues</td>
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<tr>
<td>CJ 517</td>
<td>Gangs in America</td>
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<tr>
<td>CJ 519</td>
<td>Domestic and Family Violence</td>
</tr>
<tr>
<td>CJ 520</td>
<td>Capital Punishment - WR</td>
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<td>CJ 521</td>
<td>White Collar Crime - WR</td>
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<tr>
<td>CJ 522</td>
<td>Serial Murder</td>
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<tr>
<td>CJ 523</td>
<td>Race and Gender Issues in Criminal Justice - WR</td>
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<td>CJ 530</td>
<td>Intro to Homeland Security</td>
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<tr>
<td>CJ 531</td>
<td>Covert Operations in Policing</td>
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<tr>
<td>CJ 578</td>
<td>Criminal Justice Leadership - WR</td>
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<tr>
<td>CJ 580</td>
<td>International Service Learning: Criminal Justice Seminar</td>
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<tr>
<td>CJ 596</td>
<td>Seminar in Criminal Justice</td>
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<tr>
<td>CJ 597</td>
<td>Ethics in Criminal Justice - WR</td>
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</tbody>
</table>

**Approved Program Related Electives**

*Students may supplement the required 15 hours of CJ electives with 9 additional hours from the CJ list above or from the list below.*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTH 309</td>
<td>Sex, Gender and Culture</td>
</tr>
<tr>
<td>ANTH 310</td>
<td>Race, Culture, Identity</td>
</tr>
<tr>
<td>ANTH 327</td>
<td>Fundamentals of Skeletal Forensics</td>
</tr>
<tr>
<td>ANTH 334</td>
<td>Conflict, Law, and Culture</td>
</tr>
<tr>
<td>ANTH 337</td>
<td>Nationalism, Violence, and the State</td>
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<tr>
<td>ANTH 340</td>
<td>Human Rights</td>
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<td>ANTH 410</td>
<td>Skeletal Forensics</td>
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<tr>
<td>COMM 304</td>
<td>Argument In Everyday Life</td>
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<td>COMM 311</td>
<td>Persuasion</td>
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<td>COMM 312</td>
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<td>COMM 313</td>
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<tr>
<td>COMM 315</td>
<td>Introduction to Interpersonal Communication</td>
</tr>
<tr>
<td>COMM 320</td>
<td>Newswriting - WR</td>
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<tr>
<td>COMM 324</td>
<td>Communication and Gender</td>
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<tr>
<td>COMM 327</td>
<td>Mass Media Processes and Effects</td>
</tr>
<tr>
<td>COMM 432</td>
<td>Advanced Organizational Communication - WR</td>
</tr>
<tr>
<td>GEOG 327</td>
<td>Economic Geography</td>
</tr>
<tr>
<td>GEOG 328</td>
<td>Urban Geography</td>
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<tr>
<td>GEOG 331</td>
<td>Population Geography</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Introduction to Mapping and Geospatial Technologies</td>
</tr>
<tr>
<td>GEOG 356</td>
<td>Introduction to Spatial Statistics</td>
</tr>
<tr>
<td>GEOG 361</td>
<td>Sustainable Human Environments - WR</td>
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<tr>
<td>GEOG 367</td>
<td>Applications Development for GIS</td>
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<tr>
<td>PAS 313</td>
<td>Urban Ritual Violence</td>
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<tr>
<td>PAS 322</td>
<td>The History of the Civil Rights Movement, 1900 to Present</td>
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<tr>
<td>PAS 324</td>
<td>Politics, Political Violence and Black Resistance</td>
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<tr>
<td>PAS 325</td>
<td>Politics of Black Male Identity in Post-Modern America</td>
</tr>
<tr>
<td>PAS 326</td>
<td>Black Political Thought: Africa to Afrocentricity</td>
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<tr>
<td>PAS 327</td>
<td>Politics of the Black Community - D1, SB</td>
</tr>
<tr>
<td>PAS 338</td>
<td>Race and Economics</td>
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<tr>
<td>PAS 362</td>
<td>Civil Rights and the Law I</td>
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<td>PAS 363</td>
<td>Civil Rights and the Law II</td>
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<td>PAS 364</td>
<td>Racism and Sexism - D1, SB</td>
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<td>PAS 374</td>
<td>The Black Power Movement</td>
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<td>PARA 305</td>
<td>Family Law</td>
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<td>PARA 310</td>
<td>Torts for Paralegals</td>
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<td>Computers and the Law</td>
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<td>Litigation</td>
</tr>
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<td>Criminal Litigation</td>
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<tr>
<td>PEAC 325</td>
<td>Peace, Justice &amp; Conflict Transformation</td>
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<td>PEAC 350</td>
<td>Mediation &amp; Conflict Transformation</td>
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<tr>
<td>PEAC 525</td>
<td>Peace, Justice &amp; Conflict Transformation</td>
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</tbody>
</table>
Flight Plan

Course | Title | Hours
--- | --- | ---

**Year 1**

Fall
- GEN 100 | Student Success Center Orientation or GEN 101 or Arts and Sciences Orientation | 1
- ENGL 101 | Introduction to College Writing - WC | 3
- CJ 200 | Crime and Justice in the United States - SB | 3
- General Education: Cardinal Core Natural Sciences - S | 3
- Foreign Language (students who take 3 credits will require additional elective credits) | 3-4
- General Elective | 3

**Year 2**

Fall
- CJ 202 | Corrections in the United States - SB | 3
- CJ 305 | Criminal Behavior | 3
- General Education: Cardinal Core Arts & Humanities US Diversity - AHD1 | 3
- General Education: Cardinal Core Natural Sciences with Lab - B | 4
- Foreign Language (students who take 3 credits will require additional elective credits) | 3-4

**Year 3**

Fall
- CJ 306 | Criminal Procedure | 3
- CJ 325 | Research Design | 3
- General Elective | 3
- General Elective | 3
- Humanities or Natural Science Elective | 3

**Year 4**

Fall
- CJ 326 | Quantitative Analysis - QR | 3
- CJ 360 | Juvenile Justice | 3
- Criminal Justice Elective | 3
- Humanities or Natural Science Elective | 3
- WR Elective | 3

1. Completion of the second semester of a single foreign language; hours will vary depending on language taken
2. In addition to courses counted toward General Education
3. May be incorporated into other degree requirements
4. Fulfills General Education requirement.
5. Fulfills WR requirement.
6. Criminal Justice electives must be from approved departmental list at the 300 level or above. A minimum of 15 hours must be in Criminal Justice, but may not exceed 30 hours
7. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Criminal Justice with a 3+3 Track to Law (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Criminal Justice with a 3+3 Track (JA BS 3+3)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Criminal Justice (http://louisville.edu/justice)

Program Information
The College of Arts & Sciences and the Louis D. Brandeis School of Law have joined forces to create a 3+3 Accelerated Law programs that allow eligible students in the College of Arts & Sciences to begin law school in their senior year of undergraduate study. Students substitute undergraduate major requirements with the first 30 hours of law school, earning an undergraduate degree after their first year of law school and a Juris Doctor (JD) degree two years later.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<tr>
<td></td>
<td>College/School Requirements</td>
<td>13-15</td>
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<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>75-77</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
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</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
There are no specific admission requirements for this degree plan, however a 3.5 GPA is recommended by the School of Law (see below).

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Admission to Law School

Admission to the 3+3 track does not guarantee admission to the law school. Students seeking admission to law school must complete a law school application and satisfy all of Brandeis’ admissions requirements, including its median GPA and LSAT expectations.

It is recommended that students planning to pursue this track have a minimum cumulative GPA of 3.5.

For more information on Brandeis and its admissions requirements, please contact the law school’s Office of Admissions. The office can also arrange for you to visit the law school and to sit in on a class.

Brandeis School of Law Office of Admissions (http://louisville.edu/law/admissions)

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 200</td>
<td>Crime and Justice in the United States - SB (or CJ 201 or CJ 202)</td>
<td></td>
</tr>
<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
<td></td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.
### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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</table>

**Foreign Language**
- 6-8

**Electives in Humanities or Natural Sciences at 300 level or above** 6

**WR**—two approved courses at the 300 level or above 3

**Minimum Total Hours** 13-15

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CJ 200</td>
<td>Crime and Justice in the United States - SB</td>
<td>4</td>
</tr>
<tr>
<td>CJ 201</td>
<td>Law Enforcement in the United States - SB</td>
<td>4</td>
</tr>
<tr>
<td>CJ 202</td>
<td>Corrections in the United States - SB</td>
<td>4</td>
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<tr>
<td>CJ 305</td>
<td>Criminal Behavior</td>
<td></td>
</tr>
<tr>
<td>CJ 325</td>
<td>Research Design</td>
<td></td>
</tr>
<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
<td>4</td>
</tr>
<tr>
<td>CJ 360</td>
<td>Juvenile Justice</td>
<td></td>
</tr>
<tr>
<td>CJ 485</td>
<td>Seminar in Criminal Justice - CUE, WR</td>
<td>5</td>
</tr>
</tbody>
</table>

**Criminal Justice electives (See approved list below)** 6

**Law School Courses** 30

- LAW 802: Torts I
- LAW 803: Torts II
- LAW 804: Contracts I
- LAW 805: Contracts II
- LAW 811: Lawyering Skills I
- LAW 812: Lawyering Skills II
- LAW 814: Property
- LAW 815: Civil Procedure
- LAW 819: Constitutional Law I

**Electives** 9-11

**Minimum Total Hours** 75-77

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CJ 485</td>
<td>Seminar in Criminal Justice - CUE, WR</td>
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</table>

### Approved Criminal Justice Electives

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CJ 300</td>
<td>Career Development and Cultural Intelligence - D1, SB</td>
<td>3</td>
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<tr>
<td>CJ 301</td>
<td>Introduction to Computer Forensics and the Analysis of Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>CJ 335</td>
<td>Court Administration</td>
<td>3</td>
</tr>
<tr>
<td>CJ 352</td>
<td>Sex Crimes</td>
<td>3</td>
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<tr>
<td>CJ 354</td>
<td>Crime and the Media</td>
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<tr>
<td>CJ 355</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CJ 356</td>
<td>Crime Prevention</td>
<td>3</td>
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<tr>
<td>CJ 358</td>
<td>Private Security Management</td>
<td>3</td>
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<tr>
<td>CJ 365</td>
<td>Community Corrections</td>
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<tr>
<td>CJ 366</td>
<td>Introduction to Internet and Network Investigations</td>
<td>3</td>
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<tr>
<td>CJ 370</td>
<td>Police Administration</td>
<td>3</td>
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<tr>
<td>CJ 390</td>
<td>Criminal Court Procedures</td>
<td>3</td>
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<tr>
<td>CJ 400</td>
<td>Legal Issues in Corrections</td>
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<tr>
<td>CJ 403</td>
<td>Prisons and Jails in the United States</td>
<td>3</td>
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<tr>
<td>CJ 405</td>
<td>Crimes Against the Elderly</td>
<td>3</td>
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<tr>
<td>CJ 406</td>
<td>Crime Victims and Victimization</td>
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<td>CJ 415</td>
<td>Substance Abuse, Crime and Criminal Justice</td>
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<tr>
<td>CJ 420</td>
<td>Computer Applications in Criminal Justice</td>
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<td>CJ 421</td>
<td>Organized Crime</td>
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<td>CJ 425</td>
<td>Profiling Violent Crimes</td>
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<td>CJ 426</td>
<td>Violence in the United States: The Criminal Justice Response</td>
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<td>CJ 430</td>
<td>Environmental Crime</td>
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<td>CJ 435</td>
<td>Comparative Criminal Justice Systems - WR</td>
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<td>CJ 440</td>
<td>Human Trafficking: Critical Thinking About Modern-Day Slavery</td>
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<td>CJ 445</td>
<td>Computer and Electronic Crime</td>
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<td>CJ 450</td>
<td>Internship</td>
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<td>CJ 460</td>
<td>Correctional Treatment and Rehabilitation</td>
<td>3</td>
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<tr>
<td>CJ 488</td>
<td>Senior Project / Practicum / Moot Court</td>
<td>3</td>
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<tr>
<td>CJ 493</td>
<td>Police and the Community</td>
<td>3</td>
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<tr>
<td>CJ 495</td>
<td>Independent Study/Directed Readings</td>
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<tr>
<td>CJ 496</td>
<td>Special Topics in Criminal Justice</td>
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<tr>
<td>CJ 497</td>
<td>Honors Seminar</td>
<td>3</td>
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<tr>
<td>CJ 498</td>
<td>Honors Seminar - WR</td>
<td>3</td>
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<tr>
<td>CJ 499</td>
<td>Honors Thesis - WR</td>
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<tr>
<td>CJ 500</td>
<td>Crime and Criminal Justice in the Cinema</td>
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<td>CJ 505</td>
<td>International Terrorism</td>
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<td>CJ 507</td>
<td>Crime Prevention Through Environmental Design</td>
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<td>CJ 509</td>
<td>Crime Analysis</td>
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<td>CJ 516</td>
<td>Juvenile Justice Issues</td>
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<td>CJ 517</td>
<td>Gangs in America</td>
<td>3</td>
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<td>CJ 519</td>
<td>Domestic and Family Violence</td>
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<td>CJ 520</td>
<td>Capital Punishment - WR</td>
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<td>CJ 521</td>
<td>White Collar Crime - WR</td>
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<td>CJ 522</td>
<td>Serial Murder</td>
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<td>CJ 523</td>
<td>Race and Gender Issues in Criminal Justice - WR</td>
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<td>CJ 530</td>
<td>Intro to Homeland Security</td>
<td>3</td>
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<td>CJ 531</td>
<td>Covert Operations in Policing</td>
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<td>CJ 578</td>
<td>Criminal Justice Leadership - WR</td>
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<td>CJ 580</td>
<td>International Service Learning: Criminal Justice Seminar</td>
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<td>CJ 596</td>
<td>Seminar in Criminal Justice</td>
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<tr>
<td>CJ 597</td>
<td>Ethics in Criminal Justice - WR</td>
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</tbody>
</table>

1. Completion of the second semester of a single foreign language; hours will vary depending on language taken
2. In addition to courses counted toward General Education
3. May be incorporated into other degree requirements
4. Fulfills General Education requirement.
Fulfills WR requirement.

Criminal Justice electives must be from approved departmental list at the 300 level or above.

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Students must have a minimum of 50 hours at the 300 level or above.

## Flight Plan

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<th>Course</th>
<th>Title</th>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>General Education: Cardinal Core Natural Science - S</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AH02</td>
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<tr>
<td>Foreign Language 1 (students who take 3 credits will require additional elective credits)</td>
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<td>Crime and Justice in the United States - SB</td>
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<td><strong>Spring</strong></td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences with Lab - S+SL or B</td>
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<td>Foreign Language 2 (students who take 3 credits will require additional elective credits)</td>
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<td>Law Enforcement in the United States - SB</td>
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<tr>
<td><strong>Year 2</strong></td>
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<td></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<td>CJ 202</td>
<td>Corrections in the United States - SB</td>
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<td>CJ 305</td>
<td>Criminal Behavior</td>
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<tr>
<td>General Elective</td>
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</tr>
<tr>
<td>Humanities or Natural Science Course (300 level or above)</td>
<td>3</td>
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<tr>
<td>CJ 325</td>
<td>Research Design</td>
<td>3</td>
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<td>CJ 360</td>
<td>Juvenile Justice</td>
<td>3</td>
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<td><strong>Year 3</strong></td>
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<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
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<tr>
<td>Criminal Justice Elective (300 level or above)</td>
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<tr>
<td>Criminal Justice Elective (300 level or above)</td>
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<tr>
<td>WR Course (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CJ 485</td>
<td>Seminar in Criminal Justice - CUE, WR (WR, CUE)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Natural Science Course (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice Elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice Elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective (range based on language courses in Year 1)</td>
<td>1-3</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Total Hours**: 121-123

## Dental Hygiene (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Dental Hygiene (DHU BS)**

Unit: School of Dentistry (SD)  
Program: Dental Hygiene  
(http://louisville.edu/dentistry/degrees/hygiene)

### Program Information

The Bachelor of Science in Dental Hygiene program is a four-year program with a Lower and Upper Division. Students complete the lower division requirements on the Belknap campus and then apply for competitive admission to the Dental Hygiene Upper Division which is housed in the School of Dentistry on the Health Sciences Center Campus.

Because the program is housed within a school of dentistry, hygiene students learn their skills in a context that emphasizes their important place in the dental health team.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>(13 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Lower Division Pre-Professional Curriculum</td>
<td>36</td>
</tr>
</tbody>
</table>
Upper Division Professional Curriculum 66
Minimum Total Hours 120

Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission into the Dental Hygiene program is a tiered process: Lower and Upper Division. Students apply to the Lower Division to complete general education and program pre-requisite courses on the Belknap Campus. Students apply to the Upper Division to complete the professional component of the Bachelor of Science Dental Hygiene Degree Program on the HSC Campus.

Admission to the Lower Division does not guarantee admission to the Upper Division. Admission to the Upper Division is competitive.

Please refer to catalog pages containing admissions details for the Dental Hygiene program (p. 28).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHED 101</td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 104</td>
<td>Laboratory for Biology: Current Issues and Applications - SL</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Quantitative Reasoning - QR</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 111</td>
<td>College Algebra - QR</td>
<td></td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

College/School Requirements
Dental Hygiene Lower Division Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHED 101</td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 104</td>
<td>Laboratory for Biology: Current Issues and Applications - SL</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Quantitative Reasoning - QR</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 111</td>
<td>College Algebra - QR</td>
<td></td>
</tr>
</tbody>
</table>
Students must earn a letter grade of C or better in all Dental Hygiene Upper Division Clinical and Science courses.

**Code**  | **Title**                                                                 | **Hours**
--- | --- | ---
DHED 417 | Dental Hygiene Extramural Education - CUE | 1

**Flight Plan**

**Course**  | **Title** | **Hours**
--- | --- | ---
Year 1  |  |  
Fall | DHED 101 | Dental Hygiene Academic Orientation | 1
| ENGL 101 | Introduction to College Writing - WC | 3
| BIOL 202 | Biology: Current Issues and Applications - S | 3
| BIOL 204 | Laboratory for Biology: Current Issues and Applications - SL | 1
| CHEM 101 | Introduction to Chemistry - S | 3
| CHEM 105 | or Chemistry for Health Professionals - S | 1
| MATH 105 | Quantitative Reasoning - QR | 3
| or MATH 111 | or College Algebra - QR | 1
|  | Hours | 14-15

Spring |  |  
| ENGL 102 | Intermediate College Writing - WC | 3
| BIOL 257 | Introduction to Microbiology - S | 3
| PSYC 201 | Introduction to Psychology - SB | 3
| General Education: Cardinal Core Oral Communication - OC | 3
| General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SB | 3
|  | Hours | 15

Year 2  |  |  
Fall | BIOL 260 | Human Anatomy & Physiology I | 3
| MATH 109 | Elementary Statistics - QR (QR requirement must be previously satisfied to select PSYC 301 or SOC 301) | 3
| or PSYC 301 | or Statistics for Psychology | 3
| or SOC 301 | or Introduction to Social Statistics | 3
| HSS 303 | Human Nutrition | 3
| General Education: Cardinal Core Arts & Humanities Global Diversity - AH/D | 3
|  | Hours | 12

Spring | BIOL 261 | Human Anatomy & Physiology II | 3
| BIOL 262 | Human Anatomy & Physiology Lab | 1
| SOC 202 | Social Problems - D1, SB | 3
| or SOC 210 | or Race in the United States - D1, SB | 3
| General Education: Cardinal Core Arts & Humanities - AH | 3
| Elective(c), Ethics course recommended | 3
|  | Hours | 15

Year 3  |  |  
Fall | DHED 301 | Dental Hygiene Theory I | 3
| DHED 302 | Dental Hygiene Principles of Practice I | 2
| DHED 303 | Dental Anatomy | 2
| DHED 304 | Radiography | 2
| DHED 305 | Structural Biology of Head and Neck | 3
| DHED 307 | Physical Diagnosis and Medical Management | 3
|  | Hours | 18

Spring |  |  
| DHED 308 | Pre-Clinical Radiography | 1
| DHED 309 | General and Oral Pathology | 3
| DHED 310 | Periodontology | 3
| DHED 311 | Dental Materials | 3
| DHED 312 | Oral Health Education | 2
| DHED 313 | Dental Hygiene Theory II | 3
| DHED 314 | Dental Hygiene Principles of Practice II | 3
|  | Hours | 15

Summer |  |  
| DHED 315 | Pain and Anxiety Control | 3
| DHED 316 | Community Dental Health I | 2
|  | Hours | 5

Year 4  |  |  
Fall | DHED 402 | Pharmacology | 3
| DHED 404 | Special Needs Patients | 2
| DHED 405 | Advanced Periodontology | 1
| DHED 406 | Community Dental Health II | 2
| DHED 407 | Advanced Technology and Patient Care Procedures I | 2
| DHED 408 | Dental Hygiene Principles of Practice III | 4
| DHED 409 | Clinical Radiography I | 1
| DHED 410 | Evidenced Based Practice | 1
|  | Hours | 16

Spring |  |  
| DHED 410 | Advanced Radiology | 1
| DHED 411 | Clinical Radiography II | 1
| DHED 412 | Dental Hygiene Principles of Practice IV | 4
| DHED 413 | Advanced Periodontology II | 1
| DHED 414 | Advanced Technology and Patient Care Procedures II | 1
| DHED 415 | Dental Hygiene Ethics and Practice Mangement | 2
| DHED 416 | Dental Hygiene Extramural Education - CUE | 2
|  | Hours | 12

Minimum Total Hours | 120-121

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

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**Early Elementary Education (BS)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Early Elementary Education (ERED BS)**
Unit: College of Education and Human Development (ED) (http://www.louisville.edu/edu)
Department: Early Childhood and Elementary Education (ECEE) (http://louisville.edu/education/departments/ecee)

**Program Information**

The BS in Early Elementary Education is designed to fulfill the requirements for Kentucky certification grades P-5, which includes Kindergarten. Early Elementary Education teachers are responsible for teaching a variety of subjects. Teacher education candidates must be able to demonstrate proficiency in the general areas of English, Mathematics, Science, and Social Sciences as well as the Arts and Humanities.

**Degree Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>33-40</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>125</td>
</tr>
</tbody>
</table>

Some courses required in this degree program may satisfy multiple requirements. To complete the degree in the **minimum number of hours** listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

**Departmental Admission Requirements**

Admission to the Bachelor of Science in Early Elementary Education program requires the following:

- A minimum of 45 semester hours with a 2.75 or higher overall GPA
- B-minus or better in all EDTP and EDSP courses
- C or better in MATH 151 and MATH 152.
- Minimum test scores as required by the Education Professional Standards Board
- C or better in ENGL 102 (or equivalent) and in Oral Communication course
- Completion of Pre-Professional Courses
- Any other requirements as outlined in Application.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>The following courses are required by the program and should be taken to fulfill the respective General Education Requirement:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
</tr>
<tr>
<td></td>
<td>EDTP 245</td>
<td>Children's Literature - AH, D1</td>
</tr>
<tr>
<td></td>
<td>Please see the Track Requirements tab to determine additional courses that will satisfy both a major and General Education requirement. These courses should be taken to fulfill the respective General Education requirement.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The following are not degree requirements, but are recommended by the program to fulfill General Education Requirements:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Code</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Biology course and lab (S, SL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Science course (S)</td>
</tr>
</tbody>
</table>

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-Professional Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDTP 101</td>
<td>Academic Orientation</td>
</tr>
<tr>
<td></td>
<td>EDTP 107</td>
<td>Human Development and Learning</td>
</tr>
<tr>
<td></td>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
</tr>
<tr>
<td></td>
<td>EDTP 245</td>
<td>Children's Literature - AH, D1</td>
</tr>
<tr>
<td></td>
<td>EDTP 215</td>
<td>Foundations of Instruction</td>
</tr>
<tr>
<td></td>
<td>EDTP 399</td>
<td>Music, Art, and Motion in P-5</td>
</tr>
<tr>
<td></td>
<td>EDSP 260</td>
<td>Classroom and Behavior Management</td>
</tr>
<tr>
<td></td>
<td>MATH 151</td>
<td>Mathematics for Elementary Education 1</td>
</tr>
<tr>
<td></td>
<td>MATH 152</td>
<td>Mathematics for Elementary Education II</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>25</td>
</tr>
</tbody>
</table>
Mid-Point Assessment Prior to Elementary and Special Education Student Teaching

Satisfactory dispositions assessment; Completion of all EDTP and EDSP courses with no grade lower than B; “Pass” in all clinical field work (EDTP 312, EDTP 314, EDTP 323, EDTP 326, EDTP 330, EDSP 346); Satisfactory mid-point work sample; Positive recommendation from Elementary and Special Education Program Committees. Completed electronic documentation of 200 hours of diverse and approved field experiences.

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 311</td>
<td>Introduction to Reading/Language Arts P-5</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 312</td>
<td>Elementary Language Arts Methods Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 313</td>
<td>Math Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 314</td>
<td>Elementary Mathematics Methods Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 320</td>
<td>Methods for Teaching Reading/Language Arts, P-5</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 322</td>
<td>Social Studies Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 323</td>
<td>Elementary Social Studies Methods Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 324</td>
<td>Science Methods P-5</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 326</td>
<td>Elementary Science Methods Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 328</td>
<td>Building Learning Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 330</td>
<td>Building Learning Communities Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 355</td>
<td>Assessment and Research</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 506</td>
<td>Public Schools in America: Understanding our Past to Envision our Future</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 345</td>
<td>Special Populations in Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 346</td>
<td>Special Populations in Schools Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 450</td>
<td>Student Teaching I: Elementary Education</td>
<td>6</td>
</tr>
<tr>
<td>EDTP 477</td>
<td>Capstone Student Teaching Seminar - CUE</td>
<td>3</td>
</tr>
</tbody>
</table>

Track Requirements

**Track in English (EREDBSRENG)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 341</td>
<td>Teaching Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 452</td>
<td>Student Teaching II: Elementary Education</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 202</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 301</td>
<td>British Literature I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 302</td>
<td>British Literature II</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 303</td>
<td>Scientific and Technical Writing - WR</td>
<td></td>
</tr>
<tr>
<td>ENGL 306</td>
<td>Business Writing - WR</td>
<td></td>
</tr>
<tr>
<td>ENGL 309</td>
<td>Inquiries in Writing - WR</td>
<td></td>
</tr>
<tr>
<td>ENGL 310</td>
<td>Writing About Literature for Non-Majors - WR</td>
<td></td>
</tr>
<tr>
<td>ENGL 311</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 312</td>
<td>American Literature II</td>
<td></td>
</tr>
<tr>
<td>PAS 340</td>
<td>African-American Literature - AH, D1 1</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 373</td>
<td>Women and Global Literature - AH, D2</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 522</td>
<td>Structure of Modern English</td>
<td></td>
</tr>
<tr>
<td>ENGL 325</td>
<td>Introduction to Linguistics</td>
<td></td>
</tr>
<tr>
<td>EDTP 522</td>
<td>Methods of Teaching Grammar, K-12</td>
<td></td>
</tr>
<tr>
<td>EDTP 540</td>
<td>Teaching Adolescent Readers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 506</td>
<td>Teaching of Writing - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 36

1 Completes 3 hours of AHD1 or AHD2 Gen Ed requirements

**Degree Assessment**

B-minus or better in student teaching and capstone courses; 2.75 overall GPA; all program courses with 3.0 cumulative GPA; satisfactory work sample.

**Certification Assessment**

Satisfactory Dispositions Assessment; passing scores on required PRAXIS exams.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 477</td>
<td>Capstone Student Teaching Seminar - CUE</td>
<td>3</td>
</tr>
</tbody>
</table>

1 To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements (or decrease the listed electives).

2 Restricted to students admitted to teacher education

**Track in French (EREDBSRFRE)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 341</td>
<td>Teaching Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 452</td>
<td>Student Teaching II: Elementary Education</td>
<td>6</td>
</tr>
<tr>
<td>FREN 320</td>
<td>French Skills Overview</td>
<td>3</td>
</tr>
<tr>
<td>FREN 321</td>
<td>French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 322</td>
<td>Written Expression - WR</td>
<td>3</td>
</tr>
<tr>
<td>FREN 331</td>
<td>French Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

Middle Grades Certification Extension requires a 2.5 GPA in English content courses and successful completion of EDTP 607 and EDTP 620, middle grades field experience, and passing scores on the PRAXIS Middle Grades Language Arts exam.
### Track in Individualized Studies (EREDBSRINS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Student Teaching Requirement</td>
<td></td>
</tr>
<tr>
<td>EDTP 452</td>
<td>Student Teaching II: Elementary Education</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Individualized Studies Courses</td>
<td>27</td>
</tr>
</tbody>
</table>

Students must develop a 27-hour curriculum plan in cooperation with their advisors.

Minimum Total Hours 33

P-12 Certification Extension requires a 2.50 GPA in French content courses and successful completion of EDTP 629 and EDTP 620, field experience, and passing scores on the required PRAXIS French examination.

### Track in Learning and Behavior Disorders (Certification grades P-12) (EREDBSRELB)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Student Teaching Requirement</td>
<td></td>
</tr>
<tr>
<td>EDSP 470</td>
<td>Student Teaching, LBD</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Learning &amp; Behavioral Disorder Courses</td>
<td></td>
</tr>
<tr>
<td>EDSP 218</td>
<td>Technology for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 240</td>
<td>Introduction to Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 422</td>
<td>Transition Programs and Services for Children and Youth with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 442</td>
<td>Practicum: Learning and Behavior Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 451</td>
<td>Learning and Behavior Disorders Practicum II</td>
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<td>EDSP 510</td>
<td>Legal Issues in Special Education</td>
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<td>EDSP 512</td>
<td>Methods for Students with Learning and Behavior Disorders</td>
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<td>Assessment Procedures for Students with Learning &amp; Behavior Disorders</td>
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<td>EDSP 518</td>
<td>Teaching Reading Special Education P-12</td>
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Minimum Total Hours 33

### Track in Moderate and Severe Disabilities (Certification grades P-12) (EREDBSRMSD)

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<td>Technology for Students with Disabilities</td>
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<td>Introduction to Exceptional Children</td>
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<td>Transition Programs and Services for Children and Youth with Disabilities</td>
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<td>Moderate/Severe Disabilities Curriculum and Methods II</td>
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<td>Instructional Methods for Students with Moderate/ Severe Disabilities</td>
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Minimum Total Hours 33

### Track in Science (EREDBSRSCI)

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<td>Unity of Life - S</td>
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<td>Principles of Biology Laboratory - SL</td>
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<td>CHEM 201</td>
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<td>PHYS 111</td>
<td>Elements of Physics - B</td>
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Select two of the following:

- PHYS 107 | Elementary Astronomy - S                          | 3     |
- GEOS 200 | The Global Environment - S (strongly recommended)  |       |

Middle Grades Certification Extension requires a 2.50 GPA in Mathematics content courses and successful completion of EDTP 608 and EDTP 620, middle grades field experience, and passing scores on the required PRAXIS Middle Grades Mathematics examination.
GEOS 220  Contemporary Issues in Meteorology - S
Electives 3  4
Minimum Total Hours 40
1  Completes 3 hours of Gen Ed S requirement
2  Completes 4 hours of Gen Ed S and SL requirements
3  CHEM 207 and CHEM 208 are strongly recommended

(Please contact an advisor for the College of Education and Human Development for a list of additional approved science courses which may be substituted for the courses listed above.)

Middle Grades Certification Extension requires a 2.50 GPA in Science content courses and successful completion of EDTP 609 and EDTP 620, middle grades field experience, and passing scores on the required PRAXIS Middle Grades Science examination.

Track in Social Studies (EREDBSRSST)

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<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH 1</td>
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<td>HIST 102</td>
<td>History of Civilizations II - D2, SBH 1</td>
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<td>HIST 211</td>
<td>American History I - D1, SBH 1</td>
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<td>HIST 212</td>
<td>American History II - D1, SBH 1</td>
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<td>Human Geography in a Changing World - D2, SB 2</td>
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<td>Introduction to American Government and Politics - SB 2</td>
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<td>Introduction to Comparative Politics - D2, SB</td>
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<td>ECON 201</td>
<td>Principles of Microeconomics - SB 2</td>
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<td>Introduction to Sociology - SB 2</td>
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<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB 2</td>
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Minimum Total Hours 39
1  Completes 3 hours of SBHD1 or SBHD2 Gen Ed requirement.
2  Completes 3 hours of SB Gen Ed requirement.

Middle Grades Certification Extension requires a 2.50 GPA in Social Studies content courses and successful completion of EDTP 610 and EDTP 620, middle grades field experience, and passing scores on the required PRAXIS Middle Grades Social Studies examination.

Track in Early Childhood Education (EREDBSRECE)

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<td>EDTP 435</td>
<td>Administration and Consultations: Day Care and Early Childhood</td>
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<td>EDTP 436</td>
<td>Theories of Play</td>
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<td>EDTP 437</td>
<td>Infant/Toddler Development and Care</td>
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<td>EDTP 440</td>
<td>Interdisciplinary Content Methods in Early Childhood Education</td>
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<td>Advanced Curriculum and Methods in Early Childhood Education</td>
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<td>Early Childhood Special Education Assessment</td>
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<td>Early Family Intervention for Preschool Disabilities</td>
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<td>Practicum: Developmental Intervention</td>
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<td>Curriculum and Methods for Early Childhood Special Education</td>
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Minimum Total Hours 33

Flight Plan

Track in English

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<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
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<td></td>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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# University of Louisville

## Track in French

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<td>FREN 320</td>
<td>French Skills Overview</td>
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<td>Written Expression - WR</td>
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<td>EDTP 107</td>
<td>Human Development and Learning</td>
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<td>EDTP 245</td>
<td>Children's Literature - AH, D1</td>
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<td>ENGL 306</td>
<td>Business Writing - WR</td>
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<td>ENGL 309</td>
<td>Inquiries in Writing - WR</td>
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<td>Writing About Literature for Non-Majors - WR</td>
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<td>Classroom and Behavior Management</td>
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<td>EDTP 215</td>
<td>Foundations of Instruction</td>
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<td>Introduction to Reading/Language Arts P-5</td>
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<td>Assessment and Research</td>
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<td>Public Schools in America: Understanding our Past to Envision our Future</td>
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## Track in Learning and Behavior Disorders (Certification Grades P-12)

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<td>EDTP 101</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
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<td>EDTP 245</td>
<td>Children's Literature - AH, D1</td>
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<td>Technology for Students with Disabilities</td>
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<td>Transition Programs and Services for Children with Disabilities</td>
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<td>Foundations of Instruction</td>
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<td>Music, Art, and Motion in P-5</td>
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<tr>
<td>EDSP 345</td>
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**Spring**

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<td>GEOS 200</td>
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### Track in Social Studies

#### Year 1

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<tr>
<td>EDTP 101</td>
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<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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**Spring**

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<tr>
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<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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#### Year 2

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<tr>
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<td>American History I - D1, SBH</td>
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<td>MATH 152</td>
<td>Mathematics for Elementary Education II</td>
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**Spring**

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<td>EDTP 215</td>
<td>Foundations of Instruction</td>
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<td>EDTP 245</td>
<td>Children's Literature - AH, D1</td>
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#### Year 3

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<tr>
<td>EDTP 311</td>
<td>Introduction to Reading/Language Arts P-5</td>
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<td>EDTP 328</td>
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<td>Introduction to Cultural Anthropology - D2, SB</td>
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<td>Introduction to Sociology - SB</td>
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**Spring**

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Track in Spanish

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<td>Introduction to College Writing - WC</td>
<td>3</td>
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<tr>
<td>SPAN 201</td>
<td>Intermediate Spanish I</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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Track in Early Childhood Education

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<td>The Teaching Profession - SB</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<tr>
<td>Hours</td>
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<td>ENGL 102</td>
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### Track in Individualized Studies

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### General Education: Cardinal Core Quantitative Reasoning - QR

- EDTP 477
- EDTP 451
- EDTP 450

### General Education: Cardinal Core Natural Sciences - S

- EDTP 312
- EDTP 320
- EDTP 322
- EDTP 323
- EDTP 533

### General Education: Cardinal Core Natural Sciences Lab - SL

- EDSP 346
- EDSP 345

### General Education: Cardinal Core Arts & Humanities Global Diversity - AH02

- EDTP 355
- EDTP 323
- EDTP 322
- EDTP 320
- EDTP 312

### General Education: Cardinal Core Oral Communication - OC

- EDTP 215
- EDTP 201
- EDTP 101

### General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH

- ENGL 102
- MATH 151
- General Education: Cardinal Core Oral Communication - OC
- EDTP 107
- EDTP 245
- EDSP 260
- Elective as approved by advisor

### General Education: Cardinal Core Arts & Humanities Global Diversity - AH02

- EDTP 450
- EDTP 452
- Student Teaching I: Elementary Education
- Student Teaching II: Elementary Education

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- **Fall Year 1**: 15 hours
- **Spring Year 1**: 16 hours
- **Fall Year 2**: 15 hours
- **Spring Year 2**: 16 hours
- **Fall Year 3**: 17 hours
- **Spring Year 3**: 18 hours
- **Fall Year 4**: 17 hours
- **Spring Year 4**: 18 hours

---

**Minimum Total Hours**

- 125 hours
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

**Economics (BA)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts in Economics (EC BA)**
Unit: College of Business (BU) (http://www.louisville.edu/business)
Department: Economics (http://business.louisville.edu/economics)

**Program Information**

The Department of Economics provides a thorough education in economics to UofL undergraduate students with majors and minors in the department as well as students from other academic programs. A primary departmental objective is promoting the understanding of the economy through economic analysis of industry, non-profit institutions, and government at the micro- and macroeconomic levels. Students develop comprehension, reasoning, and quantitative skills through their study of domestic and global economic issues.

**Degree Summary**

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<thead>
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<th>Title</th>
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<tbody>
<tr>
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6 hours of General Education requirements may be satisfied through coursework required by the degree program

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<table>
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<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
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<td>&amp; POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
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<td>BSTA 301</td>
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Foreign Language: 12

Humanities or Natural Science (6 hours - 300+ Level): 9

Social Sciences (6 hours - 300+ Level): 12

Minimum Total Hours: 53

To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements (or decrease the indicated electives). See the Degree Requirements tab for specific coursework.

College/School Requirements total includes 6 hours of required courses that also satisfy General Education hours requirements.

Specific coursework information can be found on the Degree Requirements tab.

**Departmental Admission Requirements**

Admission to the College of Business (p. 26) ensures admission to the BA in Economics.

**General Education Requirements**

<table>
<thead>
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<th>Title</th>
<th>Hours</th>
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<tr>
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The following program requirements satisfy General Education requirements and are included in the total hours listed below

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<td>Calculus I - QR</td>
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</tr>
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<td>POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
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<td>or ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
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</table>

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>3-4</td>
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<tr>
<td>or MATH 180</td>
<td>Elements of Calculus - QR</td>
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</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td></td>
</tr>
<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
<td>6</td>
</tr>
<tr>
<td>&amp; POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
<td>4</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Career Development</td>
<td>1</td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Foreign Language: 12

Humanities or Natural Science (6 hours - 300+ Level): 9

Social Sciences (6 hours - 300+ Level): 12

Minimum Total Hours: 53
Total of 53 includes 3 credit hours of POLS (or ECON) and 3 credit hours of MATH that are also counted in the 31 General Education hours above. See notes.

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Economics Breadth</strong></td>
<td></td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 475</td>
<td>Senior Economics Seminar - CUE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Electives in Economics</strong></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>General Electives (6-18 hours - 300+ Level)</strong></td>
<td>18</td>
</tr>
<tr>
<td></td>
<td><strong>Minimum Total Hours</strong></td>
<td>42</td>
</tr>
</tbody>
</table>

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

All prerequisites must be followed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Culminating Undergraduate Experience (Graduation requirement)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Requirement fulfilled by completing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 475</td>
<td>Senior Economics Seminar - CUE</td>
</tr>
<tr>
<td>1</td>
<td>College/School Requirements satisfy 6 hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social &amp; Behavioral Sciences).</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MATH 205 or MATH 180 must be taken as a required math course for all Economic majors. Their prerequisite(s) may be used as General Electives.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Also completes the Quantitative Reasoning General Education requirement. Student who take MATH 205 to satisfy the program Math requirement will reduce the number of general electives required to reach the minimum number of hours for the degree by one (1).</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>POLS 202 completes 3 hours of General Education Social &amp; Behavioral Sciences and satisfies the Global Diversity (D2) requirement.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements (or decrease the listed electives).</td>
<td></td>
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</tbody>
</table>

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAMP 100</td>
<td>Campus Culture/Business Students</td>
<td>1</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Science – S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Science Lab - SL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>4</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 201</td>
<td>Career Development</td>
<td>1</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
</tr>
<tr>
<td></td>
<td><strong>Select one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BSTA 301</td>
<td>Business Statistics</td>
</tr>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
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</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td>3</td>
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<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity – AHD1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Science – S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>4</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
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<tr>
<td></td>
<td>Economics Elective</td>
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<tr>
<td></td>
<td>General Elective (300-level or above)</td>
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<tr>
<td></td>
<td>Social Science Elective (300-level or above)</td>
<td>3</td>
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<tr>
<td></td>
<td>Humanities or Natural Science Elective</td>
<td>3</td>
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<tr>
<td><strong>Year 4</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td></td>
<td>Economics Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective (300-level or above)</td>
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<tr>
<td></td>
<td>Social Science Elective</td>
<td>3</td>
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<tr>
<td></td>
<td>General Elective (300-level or above)</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>ECON 475</td>
<td>Senior Economics Seminar - CUE</td>
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<tr>
<td>Economics Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Natural Science Elective (300-level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective (300-level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
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<td>3</td>
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<tr>
<td><strong>Minimum Total Hours</strong></td>
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<td>120</td>
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</tbody>
</table>
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Electrical Engineering (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Electrical Engineering (EE BEE)
Unit: Speed School of Engineering (SS) (http://louisville.edu/speed)
Department: Electrical & Computer Engineering (http://louisville.edu/speed/electrical)

Program Information

Students specializing in Electrical Engineering will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Electrical & Computer Engineering—nine semesters in Departmental Studies—to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree.


Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>(19 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
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</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>74</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>123</td>
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</tbody>
</table>

1 Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and satisfy the respective General Education Requirement(s):

- ENGR 101 Engineering Analysis I - QR
- ENGL 101 Introduction to College Writing - WC
- ENGL 102 Intermediate College Writing - WC
- CHEM 201 General Chemistry I - S
- PHYS 298 Introductory Mechanics, Heat and Sound - S
- COMM 111 Introduction to Public Speaking - OC
- or COMM 11 Business and Professional Speaking - OC
- CHEM 207 Introduction to Chemical Analysis I - SL

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Speed School Core</td>
<td></td>
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<tr>
<td></td>
<td>ENGR 101 Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENGR 102 Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENGR 110 Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
</tbody>
</table>
ENGR 111  Engineering Methods, Tools and Practice II  2
ENGL 101  Introduction to College Writing - WC  3
ENGL 102  Intermediate College Writing - WC  3
CHEM 201  General Chemistry I - S  3
CHEM 207  Introduction to Chemical Analysis I - SL  1
PHYS 298  Introductory Mechanics, Heat and Sound - S  4
COMM 111  Introduction to Public Speaking - OC  3
or COMM 112  Business and Professional Speaking - OC

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECE 220</td>
<td>Network Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 221</td>
<td>Network Analysis I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ECE 288</td>
<td>Electrical &amp; Computer Engineering Cooperative Education Seminar</td>
<td>0</td>
</tr>
<tr>
<td>ECE 289</td>
<td>Electrical &amp; Computer Engineering Cooperative Education I</td>
<td>1</td>
</tr>
<tr>
<td>ECE 320</td>
<td>Network Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>ECE 322</td>
<td>Introduction to ECE Computing Tools</td>
<td>1</td>
</tr>
<tr>
<td>ECE 333</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 334</td>
<td>Electronics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECE 360</td>
<td>Probabilistic Methods in Electrical and Computer Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECE 389</td>
<td>Electrical &amp; Computer Engineering Cooperative Education II</td>
<td>1</td>
</tr>
<tr>
<td>ECE 412</td>
<td>Introduction to Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 420</td>
<td>Signals and Linear Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 473</td>
<td>Introduction to Electromagnetic Fields and Waves</td>
<td>3</td>
</tr>
<tr>
<td>ECE 489</td>
<td>Electrical and Computer Engineering Cooperative Education III</td>
<td>1</td>
</tr>
<tr>
<td>ECE 496</td>
<td>Professional Issues and Current Topics Seminar</td>
<td>2</td>
</tr>
<tr>
<td>ECE 497</td>
<td>Capstone Design in ECE - CUE (CUE)</td>
<td>3</td>
</tr>
<tr>
<td>ECE 510 &amp; ECE 511</td>
<td>Computer Design &amp; Computer Design Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ECE 515 &amp; ECE 514</td>
<td>Introduction to VLSI Systems Laboratory</td>
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</tr>
<tr>
<td>ECE 516</td>
<td>Microcomputer Design</td>
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<tr>
<td>CECS 525</td>
<td>Microcomputer Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 520 &amp; ECE 521</td>
<td>Digital Signal Processing &amp; Digital Signal Processing Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ECE 533 &amp; ECE 534</td>
<td>Integrated Circuit Design &amp; Integrated Circuit Design Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ECE 543 &amp; ECE 544</td>
<td>Fundamentals of Microfabrication and MEMS &amp; Microfabrications/MEMS Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ECE 550 &amp; ECE 551</td>
<td>Communication and Modulation &amp; Communication Systems Laboratory</td>
<td>1</td>
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Select two ECE Electives at the 500 level from the following:  6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECE 500</td>
<td>Special Topics in Electrical Engineering</td>
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<tr>
<td>ECE 510</td>
<td>Computer Design</td>
</tr>
<tr>
<td>ECE 511</td>
<td>Computer Design Laboratory</td>
</tr>
<tr>
<td>ECE 514</td>
<td>Introduction to VLSI Systems Laboratory</td>
</tr>
<tr>
<td>ECE 515</td>
<td>Introduction to VLSI Systems</td>
</tr>
<tr>
<td>ECE 516</td>
<td>Microcomputer Design</td>
</tr>
<tr>
<td>ECE 518</td>
<td>Fundamentals of Computer Communications and Networks</td>
</tr>
<tr>
<td>ECE 520</td>
<td>Digital Signal Processing</td>
</tr>
<tr>
<td>ECE 521</td>
<td>Digital Signal Processing Laboratory</td>
</tr>
<tr>
<td>ECE 523</td>
<td>Introduction to Biometrics</td>
</tr>
<tr>
<td>ECE 530</td>
<td>Introduction to Random Processes and Estimation Theory</td>
</tr>
<tr>
<td>ECE 531</td>
<td>Power Electronics</td>
</tr>
<tr>
<td>ECE 533</td>
<td>Integrated Circuit Design</td>
</tr>
<tr>
<td>ECE 534</td>
<td>Integrated Circuit Design Laboratory</td>
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<tr>
<td>ECE 542</td>
<td>Physical Electronics</td>
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<tr>
<td>ECE 543</td>
<td>Fundamentals of Microfabrication and MEMS</td>
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<tr>
<td>ECE 544</td>
<td>Microfabrications/MEMS Laboratory</td>
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<tr>
<td>ECE 545</td>
<td>Optical Signal Processing</td>
</tr>
<tr>
<td>ECE 550</td>
<td>Communication and Modulation</td>
</tr>
<tr>
<td>ECE 551</td>
<td>Communication Systems Laboratory</td>
</tr>
<tr>
<td>ECE 560</td>
<td>Control Systems Principles</td>
</tr>
<tr>
<td>ECE 561</td>
<td>Control Systems Laboratory</td>
</tr>
<tr>
<td>ECE 564</td>
<td>Fundamentals of Autonomous Robots</td>
</tr>
<tr>
<td>ECE 565</td>
<td>Fundamentals of Autonomous Robots Lab</td>
</tr>
<tr>
<td>ECE 566</td>
<td>Fundamentals of Autonomous Robots</td>
</tr>
<tr>
<td>ECE 567</td>
<td>Fundamentals of Autonomous Robots Lab</td>
</tr>
<tr>
<td>ECE 581</td>
<td>Electric Machines and Drives</td>
</tr>
<tr>
<td>ECE 582</td>
<td>Power System Analysis</td>
</tr>
<tr>
<td>CECS 516</td>
<td>Fundamentals of Computer Communications and Networks</td>
</tr>
<tr>
<td>CECS 525</td>
<td>Microcomputer Design</td>
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</table>

### Electrical and Computer Engineering Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECE 210</td>
<td>Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 211</td>
<td>Logic Design Laboratory</td>
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</table>

### Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CECS 130</td>
<td>Introduction to Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>IE 370</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
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</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one CECS/Mathematics/Science Elective from the following:  3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 263</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>CECS 220</td>
<td>Object Oriented Program Design with Java</td>
<td>3</td>
</tr>
<tr>
<td>CECS 310</td>
<td>Discrete Structures</td>
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</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
</tbody>
</table>
Students must take 3 hours of CECS/Mathematics/Science Electives and 3 hours of Engineering Science Electives. Some students may wish to use these electives toward satisfying the requirements for a minor in Mathematics or Physics; additional information is available in the Department. 6 additional hours must be taken of either CECS/Mathematics/Science Electives or ECE Electives.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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<tr>
<td>ENGR 101</td>
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</tr>
<tr>
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<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
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<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ECE 210</td>
<td>Logic Design</td>
<td>3</td>
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<tr>
<td>ECE 211</td>
<td>Logic Design Laboratory</td>
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<tr>
<td>ENGR 102</td>
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<td>ENGR 111</td>
<td>Engineering Methods, Tools, and Practice II</td>
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<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>17</td>
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<tr>
<td><strong>Summer</strong></td>
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<td>ENGR 201</td>
<td>Engineering Analysis III</td>
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<td>Introductory Electricity, Magnetism and Light</td>
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<td>CECS 130</td>
<td>Introduction to Programming Languages</td>
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<td>COMM 112 or COMM 111</td>
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<td>ECE 288</td>
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<td>Introduction to ECE Computing Tools</td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td>ECE 289</td>
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<td><strong>Summer</strong></td>
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<td>IE 370</td>
<td>Engineering Economic Analysis</td>
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<tr>
<td>ECE 320</td>
<td>Network Analysis II</td>
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<td>Engineering Science Elective</td>
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<tr>
<td>ECE 473</td>
<td>Introduction to Electromagnetic Fields and Waves</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>12</td>
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</tbody>
</table>
English (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in English (ENGLBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: English (http://louisville.edu/english)

Program Information
The program for English majors is designed to lay a foundation for careers in writing, teaching, scholarship, and research, as well as for many other types of position in the business and professional world where skills in communication, creative, critical, or analytical writing, public relations, editorial skills, advertising, or the like are required.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>Program/Major Requirements</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
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</tbody>
</table>

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the BA in English requires completion of ENGL 101 and ENGL 102 OR ENGL 105 or approved substitute; a minimum cumulative grade point average of 2.0; and a minimum grade point average of 2.0 in courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center web site: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>
All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
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<td>GEN 100</td>
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<td>Arts and Sciences Orientation</td>
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<td></td>
<td>Foreign Language</td>
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<td></td>
<td>Electives in Social or Natural Sciences</td>
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<td>WR—two approved courses at the 300 level or above</td>
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### Program/Major Requirements

<table>
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<tr>
<td></td>
<td>Department of English</td>
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<tr>
<td>ENGL 300</td>
<td>Introduction to English Studies - WR</td>
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<tr>
<td>ENGL 491</td>
<td>Interpretive Theory: The New Criticism to the Present</td>
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<tr>
<td></td>
<td>English electives at the 400-level</td>
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<td>English electives at the 500-level</td>
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<td></td>
<td>Supporting Courses</td>
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<tr>
<td></td>
<td>Electives in Humanities disciplines other than English, at 400 level or above</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives in Humanities disciplines other than English, at 300 level or above</td>
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<tr>
<td></td>
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<td>Minimum Total Hours</td>
<td>68</td>
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</table>

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing one of the following:

- ENGL 506 Teaching of Writing - CUE, WR
- ENGL 507 The Teaching of Creative Writing - CUE, WR
- ENGL 541 Studies in Old and Middle English Literature - CUE
- ENGL 542 Studies in Tudor and Elizabethan Literature - CUE
- ENGL 543 Studies in Stuart and Commonwealth Literature - CUE
- ENGL 544 Studies in Restoration and Eighteenth-Century British Literature - CUE
- ENGL 545 Studies in British Literature of the Romantic Period - CUE
- ENGL 546 Studies in British Literature of the Victorian Period - CUE
- ENGL 547 Studies in Modern British and/or Irish Literature - CUE
- ENGL 548 Studies in Contemporary British and/or Irish Literature - CUE
- ENGL 549 Studies in Post-Colonial and/or Ethnic Literature - CUE
- ENGL 550 Studies in African American Literature - CUE
- ENGL 552 Special Topics in Literature in English
- ENGL 554 Women's Personal Narratives - CUE
- ENGL 555 Cooperative Internship in English Studies - CUE
- ENGL 561 Chaucer - CUE
- ENGL 562 Shakespeare - CUE
- ENGL 563 Milton - CUE
- ENGL 564 Selected Figures in American Literature - CUE
- ENGL 567 Post-Colonial Voices: Writing Experience in African Literature - CUE, WR
- ENGL 571 Studies in American Literature to 1865 - CUE
- ENGL 572 Studies in American Literature, 1865-1910 - CUE
- ENGL 573 Studies in American Literature, 1910-1960 - CUE
- ENGL 574 Studies in American Literature, 1960 - CUE
- ENGL 575 Genre Studies in African-American Literature - CUE
- ENGL 577 The Harlem Renaissance - CUE
- ENGL 581 Studies in Renaissance Drama - CUE
- ENGL 586 Studies in American Drama - CUE
- ENGL 591 History of Criticism: Plato to the New Criticism - CUE
- ENGL 595 Studies in Literature and Science - CUE
- ENGL 599 Advanced Studies in English - CUE, WR

1. Completion of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Major must not include more than 9 hours of creative or expository writing (ENGL 300 and ENGL 310 are not included in this category).
5. Students planning to major in English are strongly encouraged to take ENGL 300 in the first semester after completion of ENGL 102 or ENGL 105.
6. ENGL 300 and ENGL 310 do not count toward 300-level electives.

**NOTE:** Historical Distribution: Majors must complete a minimum of one course in each of the following historical periods:
- Pre-1700 literature: 1700-1900 literature: Post-1900 literature. This requirement may be met by any selection of courses from the groups below. Consult course descriptions for information on the time-period to which a specific course applies.

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. Courses in freshman composition (ENGL 101, ENGL 102, and ENGL 105) and ENGL 202 are not counted in computing the 40 hours for an English major.

At least 50 of the total minimum hours required must be at the 300 level or above.

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or GEN 101</td>
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</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
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<tr>
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<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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</tr>
<tr>
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<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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</table>
### Degree Summary

<table>
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<td>1</td>
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</tr>
<tr>
<td></td>
<td><strong>Minimum Total Hours</strong></td>
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</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

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**French (BA)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts in French (FREN BA)**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Classical and Modern Languages (http://modernlanguages.louisville.edu)

**Program Information**

Beyond France, there are more than 50 countries in the world, spread over five continents, where French is regularly used in government, business and, of course, in everyday life.

The French program at UofL offers a wide range of classes from beginning French to classes in literature, culture, media, linguistics and film.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

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### Code: FREN

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
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<tr>
<td>22</td>
<td>College/School Requirements</td>
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<tr>
<td>1</td>
<td>Program/Major Requirements</td>
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</tr>
<tr>
<td></td>
<td><strong>Minimum Total Hours</strong></td>
<td><strong>122</strong></td>
</tr>
</tbody>
</table>
Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Accelerated BA/MA Program in French

Students interested in completing both the BA and the MA in French can do so in a combined program, which will allow them to apply up to nine (9) hours of undergraduate coursework taken at the 500-level towards the graduate degree. An additional twenty-one (21) hours of graduate coursework taken in addition will constitute the minimum number of credit hours for obtaining the non-thesis MA in French.

Full-time students working diligently will be able to obtain their MA in three semesters (summer not included) instead of four.

Program/coursework taken in addition will constitute the minimum number of coursework taken in addition will constitute the minimum number of credit hours for obtaining the non-thesis MA in French.

Students interested in completing both the BA and the MA in French can do so in a combined program, which will allow them to apply up to nine (9) hours of undergraduate coursework taken at the 500-level towards the graduate degree. An additional twenty-one (21) hours of graduate coursework taken in addition will constitute the minimum number of credit hours for obtaining the non-thesis MA in French.

Full-time students working diligently will be able to obtain their MA in three semesters (summer not included) instead of four.

The guidelines for this combined program are as follows:

1. Prior to applying for admission into the program, students must consult with the French Undergraduate advisor and the Director of Graduate Studies in French. They will then submit their application through the School of Interdisciplinary and Graduate Studies (http://graduate.louisville.edu/sigs/apply). It is strongly recommended that at least one of the supporting letters submitted with the application be from a French faculty member.

2. Students must:
   - a. Apply for admission to this program no later than the end of the Junior year (a total of 90 degree applicable hours)
   - b. Must have completed FREN 320, FREN 321, and FREN 322 with grades of B or better

3. Application will be reviewed by the French faculty. A 3.35 overall grade point average will be required for admission to the program.

4. Students may take a maximum of nine (9) hours for graduate credit, which will also apply to the requirements for the baccalaureate degree in French. The nine hours must be taken from the following list: FREN 523, FREN 524, FREN 531, and FREN 552.

5. Students who enroll in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Studies in the Department of Classical and Modern Languages.

### Departmental Admission Requirements

Admission to the BA in French requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>M L 250</td>
<td>Introduction to the French-Speaking World - AH, D2</td>
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</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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<td>FREN 523</td>
<td>Foreign Language</td>
<td>12</td>
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<td>FREN 524</td>
<td>Electives in Social Sciences or Natural Sciences</td>
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<tr>
<td>FREN 525</td>
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Minimum Total Hours 22

### Program/Major Requirements

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>FREN 320</td>
<td>French Skills Overview</td>
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<td>FREN 321</td>
<td>French Conversation</td>
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<td>FREN 322</td>
<td>Written Expression - WR</td>
<td>3</td>
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<td>FREN 331</td>
<td>French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 332</td>
<td>France Today</td>
<td>3</td>
</tr>
<tr>
<td>FREN 455</td>
<td>Reading in French</td>
<td>3</td>
</tr>
<tr>
<td>FREN 523</td>
<td>Advanced Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>FREN 524</td>
<td>Theory and Practice of Translation</td>
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<td>FREN 590</td>
<td>Senior Capstone - CUE</td>
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<tr>
<td>M L 250</td>
<td>Introduction to the French-Speaking World - AH, D2</td>
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### Supporting Courses

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<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
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<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
<td>3</td>
</tr>
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<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
<td>3</td>
</tr>
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<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
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</tr>
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<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
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<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
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</tr>
</tbody>
</table>

Electives in Humanities disciplines, other than French, at 300 level or above 6
Minimum Electives: 23
Minimum Total Hours: 68

No more than 40 hours in French may be applied toward the Bachelor of Arts degree.

FREN 121-FREN 123 do not count toward the 40 hour maximum in French.

At least 50 of the total minimum hours required must be at the 300 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FREN 590</td>
<td>Senior Capstone - CUE</td>
<td>1</td>
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</tbody>
</table>

Completion of the intermediate level of a single foreign language

Additional 3 hours of Arts and Sciences programmatic requirement in Natural Sciences or Social Sciences is met in supporting coursework.

In addition to courses counted toward General Education; 6 hours must be at the 300 level or above

May be incorporated into other degree requirements

Fulfills WR requirement.

Majors in one foreign language may count courses at the 300 level or above in another foreign language toward this requirement.

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100 or GEN 101</td>
<td>Student Success Center Orientation</td>
<td>1</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
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<td>Basic French I</td>
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Spring

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Year 3

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<td>FREN 332</td>
<td>France Today</td>
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Year 4

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Spring

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<td>HUM 591</td>
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<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
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<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
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<td>HUM 594</td>
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<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
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<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
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Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Geography, Applied (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Applied Geography (GEOGBS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Geography (http://louisville.edu/geography)

Program Information
Geographers investigate the character and possible associations between a subject and its environment. The Department of Geography and Geosciences educates students to view the world in a spatial and time-dependent context to determine relationships between people and their immediate and global environment.

The department offers Bachelor of Science degrees in four different concentrations:

- Environmental Analysis: designed for students who are interested in the environment and environmental sustainability.
- Geospatial Technologies: designed for students who are interested in developing geospatial technologies like GIS and remote sensing.
- Human and Cultural Dynamics: designed for students interested in the forces that shape human environments like population trends, sustainable development, ethnic and racial segregation, globalization and geopolitics.
- Urban Analysis: designed for students interested in the various processes that shape urban environments.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

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<thead>
<tr>
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<tbody>
<tr>
<td>GEOG 200</td>
<td>Human Geography in a Changing World - D2, SB (also GEOG 300)</td>
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</tr>
<tr>
<td>GEOS 200</td>
<td>The Global Environment - S</td>
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</table>

Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
There are no specific admission requirements for this degree plan. The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

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<td>GEN 100</td>
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<tr>
<td>or GEN 101</td>
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<tr>
<td>Foreign Language</td>
<td>6-8</td>
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<tr>
<td>Electives in Natural Sciences or Humanities at the 300 level or above</td>
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<td>WR—two approved courses at the 300 level or above</td>
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Minimum Total Hours 13-15

College/School Requirements

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Minimum Total Hours 13-15

Program/Major Requirements

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<td>GEOG 256</td>
<td>Introduction to Quantitative Methods in Geography and Geosciences</td>
<td>3</td>
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<tr>
<td>GEOG 300</td>
<td>Globalization and Diversity - D2, SB</td>
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<tr>
<td>GEOG 350</td>
<td>Introduction to Mapping and Geospatial Technologies</td>
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<td>GEOG 356</td>
<td>Introduction to Spatial Statistics</td>
<td>3</td>
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<td>GEOG 361</td>
<td>Sustainable Human Environments - WR</td>
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<td>GEOG 441</td>
<td>Senior Thesis Proposal - WR</td>
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<td>GEOG 442</td>
<td>Senior Thesis - CUE, WR</td>
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<td>GEOG 558</td>
<td>Introduction to Geographic Information Systems</td>
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<td>GEOS 200</td>
<td>The Global Environment - S</td>
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</table>
Electives in Geography or Geosciences at 300 level or above 6
Track Requirements 15-18

Supporting Courses
Electives in Social Sciences, other than Geography, at the 300 level or above 6
Minimum Electives 5 15-20
Minimum Total Hours 72-80

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

Track Requirements

Track in Geospatial Technologies (GEOGBS GST)

<table>
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<tr>
<td>GEOG 355</td>
<td>Introduction to Remote Sensing</td>
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</tr>
<tr>
<td>GEOG 385</td>
<td>Introduction to Programming for GIS and Spatial Data Analysis</td>
<td>3</td>
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<tr>
<td>GEOS 367</td>
<td>Geomorphology</td>
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Geospatial Technologies Foundation

Geospatial Technologies Specialization
Select three of the following:

- GEOG 522 GIS and Public Health
- GEOG 530 Transportation Geography
- GEOG 531 GIS & Urban Demographic Analysis
- GEOG 556 Advanced Remote Sensing
- GEOG 559 Advanced Geographic Information Systems
- GEOG 583 Spatial and Non-Spatial Database Management
- GEOS 571 GIS and Water Resources

Minimum Total Hours 18

Track in Human and Cultural Dynamics (GEOGBS HCD)

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<td>Geopolitics</td>
<td>3</td>
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<tr>
<td>GEOG 331</td>
<td>Population Geography</td>
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Human and Cultural Dynamics Foundation

Human and Cultural Dynamics Specialization
Select three of the following:

- GEOG 324 Race and Place
- GEOG 500 Globalization Seminar
- GEOG 510 Urbanism in the Global South: Cities and Space
- GEOG 521 Medical Geography
- GEOG 524 Food and Race
- GEOG 540 Geography and Human-Environment Interactions

Minimum Total Hours 15

Track in Urban Analysis (GEOGBS URA)

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<td>GEOG 327</td>
<td>Economic Geography</td>
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<tr>
<td>GEOG 328</td>
<td>Urban Geography</td>
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Urban Analysis Foundation

Urban Analysis Specialization
Select three of the following:

- GEOG 331 Population Geography
- GEOG 510 Urbanism in the Global South: Cities and Space
- GEOG 529 Geography of Urban Issues
- GEOG 530 Transportation Geography
- GEOG 531 GIS & Urban Demographic Analysis
- GEOG 535 GIS and Retail Site Analysis
- GEOG 536 Sustainable Transportation

Minimum Total Hours 15

Flight Plan
### Track in Environmental Analysis

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<td>GEGO 340</td>
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<td>Global Environmental Change</td>
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### Track in Geospatial Technologies

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<tr>
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<tr>
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<td>GEGO 361</td>
<td>Sustainable Human Environments - WR</td>
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<tr>
<td><strong>Spring</strong></td>
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<td>Introduction to Programming for GIS and Spatial Data Analysis</td>
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### Track in Human and Cultural Dynamics

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<td>Student Success Center Orientation</td>
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<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
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<tr>
<td>ENGL 101</td>
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<tr>
<td>Foreign Language 1</td>
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<td>3-4</td>
</tr>
<tr>
<td>GEOS 200</td>
<td></td>
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<tr>
<td>Hours</td>
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<td>ENGL 102</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<td>Hours</td>
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<tr>
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<tr>
<td>GEOG 300</td>
<td>Globalization and Diversity - D2, SB</td>
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<td>GEOG 350</td>
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<td>Hours</td>
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<td>GEOG 558</td>
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<tr>
<td>Hours</td>
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</tr>
<tr>
<td>Fall</td>
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<td>GEOG 361</td>
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<tr>
<td>Hours</td>
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### Track in Urban Analysis

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<thead>
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<tr>
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<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<tr>
<td>or GEN 101</td>
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<td>ENGL 101</td>
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<td>3-4</td>
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<td>Hours</td>
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<td>13-14</td>
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<td>Foreign Language 2</td>
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<td>3-4</td>
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<td>Introduction to Mapping and Geospatial Technologies</td>
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<td>Hours</td>
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</table>
Health and Human Performance (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Health and Human Performance (HHP BS)
Unit: College of Education and Human Development (http://www.louisville.edu/edu)
Department: Health & Sports Sciences (HSS) (http://louisville.edu/education/departments/hss)

Program Requirements
All students completing the Bachelor of Science degree in Health and Human Performance must complete the core classes, program requirements, and at least one track, along with appropriate related and supporting courses.

The core provides students with a background in the social, physiological and historical knowledge needed for specialized study in health and physical education. The track enables students to develop the professional knowledge, skills and dispositions to be effective professionals in teaching and related fields. Extensive school-based fieldwork experiences are integrated into the curriculum.

The goal of the degree program is to assist students in acquiring the skills, knowledge and dispositions to become effective and committed health and physical education teachers.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>(At least 3 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
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<td>Track Requirements</td>
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<td>Minimum Total Hours</td>
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</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Some courses required in this degree program may satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements or reduce the number of available electives within a track. See the Degree Requirements and Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements

Students must have completed a minimum of 45 credit hours and must have earned a minimum cumulative UofL grade point average of 2.25.

Students must have completed HSS 184 and HSS 320 with a grade of B-minus or higher, and HSS 202 with a grade of C or higher.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
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</table>

The following course is required by the program and should be taken to fulfill the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HSS 293</td>
<td>Social and Psychological Dimensions of Physical Activity - SB</td>
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</table>

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

### College/School Requirements

<table>
<thead>
<tr>
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Select two (2) Physical Education Activity Courses (see list below)

HSS 184 Healthy Lifestyles I

Minimum Total Hours 6

### Program/Major Requirements

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<td>HSS 202</td>
<td>Human Anatomy &amp; Physiology</td>
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<td>HSS 293</td>
<td>Social and Psychological Dimensions of Physical Activity - SB</td>
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<td>Nutrition in Healthy Living</td>
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<td>Growth and Motor Development Across the Lifespan</td>
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<td>Introduction to Statistics in Health and Human Performance</td>
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<td>HSS 387</td>
<td>Biomechanics</td>
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<td>or HSS 310</td>
<td>Healthy Lifestyles II</td>
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<td>HSS 402</td>
<td>Practicum in Health and Human Performance</td>
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<td>HSS 418 Diverse Populations in Physical Activity and Health</td>
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Minimum Total Hours 88-90

A minimum of 123 hours with an overall GPA of 2.25 is required.

A minimum of 50 hours at the 300-level are required.

No grades of D will be accepted in HSS courses used to meet program core or track requirements.

<table>
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<tr>
<th>Code</th>
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<td>HSS 103</td>
<td>Life Saving</td>
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<td>HSS 104</td>
<td>Scuba</td>
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<td>HSS 108</td>
<td>Water Fitness</td>
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<tr>
<td>HSS 109</td>
<td>Weight Training</td>
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<tr>
<td>HSS 110</td>
<td>Physical Fitness and Conditioning</td>
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<td>HSS 111</td>
<td>Aerobic Fitness</td>
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<td>HSS 112</td>
<td>Mini-Marathon Training</td>
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<td>HSS 114</td>
<td>Fitness Walking</td>
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<tr>
<td>HSS 115</td>
<td>Step Aerobics</td>
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<td>HSS 116</td>
<td>Introduction to Yoga</td>
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<td>HSS 117</td>
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<td>Beginning Martial Arts</td>
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<td>HSS 119</td>
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<td>HSS 120</td>
<td>Beginning Racquetball</td>
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<td>Billiards and Table Games</td>
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<td>HSS 122</td>
<td>Badminton</td>
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<td>Tennis</td>
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<td>HSS 124</td>
<td>Advanced Tennis</td>
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<tr>
<td>HSS 125</td>
<td>Golf</td>
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<td>HSS 126</td>
<td>Tumbling and Apparatus</td>
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<tr>
<td>HSS 127</td>
<td>Beginning Fencing</td>
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<tr>
<td>HSS 128</td>
<td>Pickleball</td>
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<td>HSS 132</td>
<td>Canoeing</td>
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<td>HSS 133</td>
<td>Backpacking and Hiking</td>
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<tr>
<td>HSS 134</td>
<td>Rappelling</td>
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<tr>
<td>HSS 136</td>
<td>Soccer</td>
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<td>HSS 137</td>
<td>Volleyball</td>
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<td>HSS 138</td>
<td>Basketball</td>
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<td>HSS 140</td>
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<td>HSS 144</td>
<td>Physical Activity for the Older Adult</td>
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<td>HSS 145</td>
<td>Activity for the Physically Challenged</td>
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<td>HSS 150</td>
<td>Special Topics: Physical Education Activities</td>
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<tr>
<td>HSS 160</td>
<td>Beginning Aerobic Dance</td>
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<tr>
<td>HSS 161</td>
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<td>HSS 162</td>
<td>Beginning Modern Dance</td>
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<td>HSS 163</td>
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<tr>
<td>HSS 164</td>
<td>Beginning Country Western Dance</td>
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<tr>
<td>HSS 165</td>
<td>Ballroom Dance</td>
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</table>
1. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements (or decrease the listed electives).

2. BIOL 260 may be substituted

3. HSS 387 is required for the track in Exercise Science. HSS 310 is required for tracks in Physical Education Teacher Preparation and School Health Education, and Youth Sport Development.

Track Requirements

Track in Exercise Science (HHP BS ESS)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HSS 386</td>
<td>Anatomy and Physiology of Exercise I 1</td>
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<tr>
<td>HSS 388</td>
<td>Principles of Athletic Conditioning</td>
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<tr>
<td>HSS 492</td>
<td>Exercise Science Internship</td>
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Select one of the following: 2-3

- HSS 507 Senior Seminar in Exercise Physiology
- HSS 381 and HSS 391 Anatomy and Physiology Lab 1 and Anatomy and Physiology Lab 2

Electives 3

Minimum Total Hours 34-35

Minimum Total Hours 63-65

Track in Youth Sport Development (HHP BS PNT)

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Electives 12

Minimum Total Hours 64

Culminating Undergraduate Experience (Graduation requirement)

- HSS 493 Internship in Physical Education 2
- Electives 38

Minimum Total Hours 64

Students interested in teacher certification must continue on to complete the Master of Arts in Teaching in Health and Physical Education. For more information, please see the program website: louisville.edu/education/degrees/mat-hpe.

Flight Plan
### Track in Exercise Science

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### Track in Youth Sport Development

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Spring
- HSS 377 Introduction to Statistics in Health and Human Performance 3
- General Elective (300 level or above) 3
- General Elective (300 level or above) 3
- General Elective (300 level or above) 3
- General Elective 3

Year 2
Fall
- HSS 411 Theory and Analysis of Team Sport Skills 3
- HSS 412 Theory and Analysis of Individual Sport Skills - CUE 3
- HSS 418 Diverse Populations in Physical Activity and Health 3
- HSS 419 Adapted Physical Education 3
- General Elective (300 level or above) 3
- General Elective 3

Hours 16

Minimum Total Hours 123

Track in Physical Education - Teacher Preparation and School Health Education

Course Title Hours

Year 1
Fall
- ENGL 101 Introduction to College Writing - WC 3
- HSS 181 Academic Orientation 1
- General Education: Cardinal Core Arts & Humanities US Diversity - AHD1 3
- PE Activity Course (HSS 101-167) 1
- General Education: Cardinal Core Natural Sciences - S 3
- General Education: Cardinal Core Natural Sciences Lab - SL 1
- General Education: Cardinal Core Quantitative Reasoning - QR 3

Hours 15

Spring
- ENGL 102 Intermediate College Writing - WC 3
- HSS 184 Healthy Lifestyles I 3
- General Education: Cardinal Core Natural Sciences - S 3
- General Education: Cardinal Core Oral Communication - OC 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3

Hours 15

Year 2
Fall
- HSS 180 First Aid and Safety Education 3
- HSS 200 Introduction to Health Education 3
- HSS 402 Practicum in Health and Human Performance 1
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 3
- General Elective 3
- General Elective 3

Hours 16

Spring
- HSS 202 Human Anatomy & Physiology 3
- or BIOL 260 or Human Anatomy & Physiology I 3

HSS 270 Introduction to Physical Education 3
HSS 310 Healthy Lifestyles II 3
HSS 320 Growth and Motor Development Across the Lifespan 3
General Elective (300 level or higher) 3

Year 3
Fall
- HSS 293 Social and Psychological Dimensions of Physical Activity - SB 3
- HSS 302 Nutrition in Healthy Living or HSS 303 Human Nutrition 3
- HSS 384 Program Planning in Health Education 3
- HSS 326 Movement Skills and Concepts in Physical Education 3
- HSS 377 Introduction to Statistics in Health and Human Performance 3

Hours 15

Spring
- EDSP 345 Special Populations in Schools 3
- EDSP 346 Special Populations in Schools Field Experience 1
- EDTP 107 or ECPPY 507 Human Development and Learning or Learning Theory and Human Growth and Development 3
- HSS 225 Skill Acquisition & Analysis 3
- HSS 418 Diverse Populations in Physical Activity and Health 3
- HSS 462 Alcohol and Drug Education 3

Hours 16

Year 4
Fall
- HSS 411 Theory and Analysis of Team Sport Skills 3
- HSS 412 Theory and Analysis of Individual Sport Skills - CUE 3
- HSS 419 Adapted Physical Education 3
- HSS 463 Sexuality Education 3
- PE Activity Course (HSS 101-167) 1
- General Elective 3

Hours 16

Minimum Total Hours 123

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."
Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

History (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in History (HISTBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: History (http://louisville.edu/history)

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Program Information
The University of Louisville Department of History offers a comprehensive undergraduate program. Our course offerings include an extensive array of classes covering American, South American, European, African, South Asian, and Asian history. Courses are taught by an internationally recognized faculty. Students who choose to pursue a history major or minor receive extensive, one-on-one advising with the department’s faculty.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

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<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH</td>
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Accelerated BA/MA in History Program

History majors who are already thinking about pursuing an MA in history can speed up the process by applying some of their undergraduate credit hours toward a master’s degree. Students take three graduate level courses/nine hours (either 500-level with the additional graduate level assignments, or 600-level) while still an undergraduate, and then have those credits apply both toward the undergraduate degree and towards an eventual master’s degree from UofL.

Interested students should:

1. Complete an application for admission to the History Department’s Master of Arts program (including GRE scores, transcripts, two letters of recommendation, and a statement of purpose) no later than the end of their junior year.
2. Have a minimum overall grade point average (GPA) of 3.35, a history GPA of 3.35, and meet all other requirements for admission to the History Department’s Master of Arts program (including at least 21 hours of history courses).

Students must retain a 3.35 GPA in history during their senior year to remain in the program. Once admitted to the accelerated BA/MA program and starting the graduate work, students are expected to maintain a full graduate load of 9 credit hours.

Departmental Admission Requirements

Admission to the BA in History requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA/MA in History Program

Interested students should apply for entry into the accelerated program no later than the end of their Junior year.

General Education Requirements

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<tr>
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<td>American History I - D1, SBH</td>
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The following courses are required by the program and can satisfy the respective General Education Requirement:

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Specific coursework information can be found on the Degree Requirements tab.
or GEN 101 Arts and Sciences Orientation
Foreign Language 1 12
Electives in Humanities or Natural Sciences 2 9
WR—two approved courses at the 300 level or above 3

Minimum Total Hours 22

Program/Major Requirements

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Pre-Modern World

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<td>Europe from 1800 to the Present</td>
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<td>HIST 340</td>
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<td>The Roman World</td>
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<td>Culture of the Ancient Near East</td>
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<td>Greek and Roman Culture</td>
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<td>Origins of Christianity</td>
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<td>HIST 351</td>
<td>Medieval Europe I</td>
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<tr>
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<td>Medieval Europe II</td>
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<td>HIST 356</td>
<td>Islamic Middle East</td>
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<tr>
<td>HIST 393</td>
<td>African History Before 1800 - D2, SBH</td>
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<tr>
<td>HIST 399</td>
<td>Modern Japan: Imperialism and Democracy</td>
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<tr>
<td>HIST 542</td>
<td>Studies in Graeco-Roman History - CUE, WR</td>
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<td>HIST 551</td>
<td>Studies in Medieval History - CUE, WR</td>
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<td>HIST 555</td>
<td>English Medieval History, 1066 to 1500 - WR</td>
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<tr>
<td>HIST 591</td>
<td>Civilizations of Ancient and Medieval India - CUE, WR</td>
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United States Area

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<tr>
<td>HIST 305</td>
<td>Historical Geography of the United States</td>
</tr>
<tr>
<td>HIST 311</td>
<td>United States Economic History</td>
</tr>
<tr>
<td>HIST 313</td>
<td>Comparative Environmental History</td>
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<tr>
<td>HIST 314</td>
<td>History of US Foreign Relations II</td>
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<td>HIST 315</td>
<td>United States Constitutional History I - WR</td>
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<td>African-American History I - D1, SBH</td>
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<td>Black Culture and U.S. Democracy</td>
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<td>The History of the Civil Rights Movement, 1900 to Present</td>
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<td>Modern American Social Movements</td>
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<td>The United States and the Middle East</td>
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<td>HIST 363</td>
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<td>HIST 364</td>
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<td>HIST 367</td>
<td>British Imperialism</td>
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<td>HIST 368</td>
<td>History of France, 1598-1799</td>
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<td>History of France, 1799 to Present</td>
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<td>Russian Cultural History - WR</td>
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<td>Modern Germany, 1848-1945: The Struggle for Unity</td>
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<td>HIST 387</td>
<td>The Holocaust, Genocide, and Global Imagination - D2, SBH</td>
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<td>Western Military History - WR</td>
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<td>Studies in Graeco-Roman History - CUE, WR</td>
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<td>Studies in Russian History - CUE, WR</td>
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<td>HIST 579</td>
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<td>Women in the Twentieth Century in Europe and the U.S. - CUE, WR</td>
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<td>Feminism in Western Civilization, 1790-1920 - WR</td>
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<td>HIST 595</td>
<td>Principles of Cultural History - WR</td>
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Asia, Africa, Latin American Area (AALA) 5

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<td>HIST 332</td>
<td>Latin America, 1820 to Present</td>
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<td>Women in Latin American History</td>
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<td>The Ancient Near East</td>
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<td>Culture of the Ancient Near East</td>
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<td>Middle Eastern History, 1453 to the Present - WR</td>
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<td>The United States and the Middle East</td>
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<td>HIST 367</td>
<td>British Imperialism</td>
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<td>War in the Modern Middle East - WR</td>
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<td>The Ottoman Empire to 1800</td>
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<td>The Ottoman Empire and Modern Turkey from 1800 - WR</td>
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<td>HIST 393</td>
<td>African History Before 1800 - D2, SBH</td>
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<td>HIST 394</td>
<td>African History Since 1800 - D2, SBH</td>
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<td>Contemporary Africa</td>
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<td>HIST 396</td>
<td>History of India</td>
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<td>HIST 397</td>
<td>Traditional China</td>
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<td>HIST 398</td>
<td>Modern China</td>
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<tr>
<td>HIST 533</td>
<td>Twentieth-Century Latin America - CUE, WR</td>
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<td>HIST 534</td>
<td>The U.S. and Latin America - CUE, WR</td>
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<td>HIST 535</td>
<td>The History of Mexico: Pre-Columbian to the Present - CUE, WR</td>
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<td>HIST 563</td>
<td>The Middle Eastern Wars - CUE, WR</td>
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<td>Women and Sexuality in the Middle East - CUE, WR</td>
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<td>HIST 584</td>
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<td>Civilizations of Modern India - CUE, WR</td>
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<td>American Image of the Middle East - CUE</td>
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<td>Studies in Middle Eastern History - WR</td>
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<td>HIST 598</td>
<td>Nationalism and Modernity in East Asia</td>
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**History electives at the 300 level or above**

- 3

**History electives at the 500 level**

- 6

**Track Requirements**

- 29

**Minimum Total Hours**

- 68

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

Once a student has declared a History major, the student must enroll in HIST 304 as 3 of the next 12 History credit hours. A grade of C or better must be earned in HIST 304.

Six hours of required 500-level history courses must be completed with a grade of C or better.

**Code** | **Title** | **Hours**
---|---|---
HIST 401 | Cooperative Internship in History - CUE | 6
HIST 504 | Philosophy of History - CUE, WR | 6
HIST 508 | American Environmental History - CUE, WR | 6
HIST 511 | History of the Old South - CUE, WR | 6
HIST 512 | History of the Jews in America - CUE, WR | 6
HIST 518 | Antebellum United States, 1800-1860 - CUE, WR | 6
HIST 521 | Colonial America to 1765 - CUE, WR | 6
HIST 522 | The American Revolution and the Confederation - CUE, WR | 6
HIST 524 | United States Civil War and Reconstruction - CUE, WR | 6
HIST 528 | Recent American History, 1929-1945 - CUE, WR | 6
HIST 529 | Recent American History, 1945 to Present - CUE, WR | 6
HIST 533 | Twentieth-Century Latin America - CUE, WR | 6
HIST 534 | The U.S. and Latin America - CUE, WR | 6
HIST 535 | The History of Mexico: Pre-Columbian to the Present - CUE, WR | 6
HIST 540 | Advanced Studies in History - CUE, WR | 6
HIST 542 | Studies in Graeco-Roman History - CUE, WR | 6
HIST 547 | Studies in Russian History - CUE, WR | 6
HIST 550 | Studies in Ancient History - CUE, WR | 6
HIST 551 | Studies in Medieval History - CUE, WR | 6
HIST 559 | U.S. and the Cold War Policy - CUE, WR | 6
HIST 561 | U.S. and Vietnam - CUE, WR | 6
HIST 563 | The Middle Eastern Wars - CUE, WR | 6

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</table>
| HIST 401 | Cooperative Internship in History - CUE | 6
| HIST 504 | Philosophy of History - CUE, WR | 6
| HIST 508 | American Environmental History - CUE, WR | 6
| HIST 511 | History of the Old South - CUE, WR | 6
| HIST 512 | History of the Jews in America - CUE, WR | 6
| HIST 518 | Antebellum United States, 1800-1860 - CUE, WR | 6
| HIST 521 | Colonial America to 1765 - CUE, WR | 6
| HIST 522 | The American Revolution and the Confederation - CUE, WR | 6
| HIST 524 | United States Civil War and Reconstruction - CUE, WR | 6
| HIST 528 | Recent American History, 1929-1945 - CUE, WR | 6
| HIST 529 | Recent American History, 1945 to Present - CUE, WR | 6
| HIST 533 | Twentieth-Century Latin America - CUE, WR | 6
| HIST 534 | The U.S. and Latin America - CUE, WR | 6
| HIST 535 | The History of Mexico: Pre-Columbian to the Present - CUE, WR | 6
| HIST 540 | Advanced Studies in History - CUE, WR | 6
| HIST 542 | Studies in Graeco-Roman History - CUE, WR | 6
| HIST 547 | Studies in Russian History - CUE, WR | 6
| HIST 550 | Studies in Ancient History - CUE, WR | 6
| HIST 551 | Studies in Medieval History - CUE, WR | 6
| HIST 559 | U.S. and the Cold War Policy - CUE, WR | 6
| HIST 561 | U.S. and Vietnam - CUE, WR | 6
| HIST 563 | The Middle Eastern Wars - CUE, WR | 6
HIST 565  Women and Sexuality in the Middle East - CUE, WR
HIST 571  The Renaissance - CUE, WR
HIST 577  The French Revolution and Napoleon - CUE, WR
HIST 579  History of European Ideas: Selected Topics - CUE, WR
HIST 582  Contemporary Europe 1945-Present - CUE, WR
HIST 583  Women in the Twentieth Century in Europe and the U.S. - CUE, WR
HIST 590  Studies in African History - CUE, WR
HIST 591  Civilizations of Ancient and Medieval India - CUE, WR
HIST 592  Civilizations of Modern India - CUE, WR
HIST 593  American Image of the Middle East - CUE
HIST 596  History of the Future - CUE
HIST 599  Oral History - CUE

1. Completion of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Courses numbered HIST 310, HIST 410, HIST 498, HIST 499, HIST 501, HIST 502, HIST 503 and HIST 540 may at times also fulfill area requirements; consult History Department
5. Includes courses on the Middle East
6. Once a student has declared a History major, the student must enroll in HIST 304 as 3 of the next 12 History credit hours. A grade of 'C' or better must be earned in HIST 304
7. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Tracks

Track in Humanities (HISTBA HUM)

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<tbody>
<tr>
<td>HIST 591</td>
<td>Perspectives on Ancient Culture - WR</td>
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<td>HIST 592</td>
<td>Perspectives on Medieval Culture - WR</td>
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<tr>
<td>HIST 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
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<td>HIST 594</td>
<td>Perspectives on Modern Culture - WR</td>
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<tr>
<td>HIST 595</td>
<td>Principles of Cultural History - WR</td>
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<tr>
<td>HIST 599</td>
<td>Selected Perspectives in Humanities - WR</td>
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Electives in the Division of Humanities at the 300 level or above 15
Minimum Electives 11
Minimum Total Hours 29

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

Track in Social Sciences (HISTBA SSC)

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<tr>
<td>HIST 210</td>
<td>American History I - D1, SBH</td>
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<tr>
<td>HIST 304</td>
<td>Historical Methods - WR</td>
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Electives in one department in the Social Sciences Division, other than History 6
Electives in a second department in the Social Sciences Division, other than History 6

Electives in Social Sciences Division, other than History, at the 300 level or above 6
Minimum Electives 11
Minimum Total Hours 29

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

1. In addition to courses counted toward General Education

Flight Plan

Track in Humanities (HISTBA HUM)

<table>
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<tr>
<th>Year 1</th>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td>History of Civilizations I - D2, SBH</td>
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| Hours | 14 |

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| Hours | 16 |

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<td>HIST 304</td>
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| Hours | 15 |

| Spring | General Education: Cardinal Core Arts & Humanities - AH | 3 |
| General Education: Cardinal Core Oral Communication - OC | 3 |
| Humanities Elective (300 level or above) |                                         | 3 |
| Humanities Elective (300 level or above) |                                         | 3 |
| General Elective |                                             | 3 |
| General Elective |                                             | 3 |

| Hours | 15 |

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<td>History: Asian/African/Latin American Area (300 level or above)</td>
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| Hours | 15 |
Year 4

Fall
History: European Area (300 level or above) 3
History: Asian/African/Latin American Area (300 level or above) 3
History Elective (500 level) 3
History CUE Requirement 3
General Elective 3

Hours 15

Spring
History Elective & WR (500 level) 3
History Elective (300 level or above) 3
History: US Area (300 level or above) 3
Select one of the following: 3

HUM 591 Perspectives on Ancient Culture - WR
HUM 592 Perspectives on Medieval Culture - WR
HUM 593 Perspectives on Early Modern Culture - WR
HUM 594 Perspectives on Modern Culture - WR
HUM 595 Principles of Cultural History - WR
HUM 596 Selected Perspectives in Humanities - WR
General Elective 3

Hours 15

Minimum Total Hours 122

Track in Social Sciences

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<td>or GEN 100</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
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<tr>
<td>Humanities or Natural Science Elective</td>
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<td></td>
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<tr>
<td>Social Science Elective (other than History)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>15</td>
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<tr>
<td>Year 3</td>
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<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>Historical Methods - WR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Science Elective (other than History at 300 level)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective (other than History)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities or Natural Science Elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
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4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

History with 3+3 Track to Law (BA)
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in History with a 3+3 Track to Law (HISTBA 3+3)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: History (http://louisville.edu/history)

Program Information
The College of Arts & Sciences and the Louis D. Brandeis School of Law have joined forces to create 3+3 Accelerated Law programs that allow eligible students in the College of Arts & Sciences to begin law school in their senior year of undergraduate study. Students substitute undergraduate major requirements with the first 30 hours of law school, earning an undergraduate degree after their first year of law school and a Juris Doctor (JD) degree two years later.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>122</td>
</tr>
</tbody>
</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the BA in History requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major. A 3.5 GPA is recommended by the School of Law (see below).

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Admission to Law School
Admission to the 3+3 track does not guarantee admission to the law school. Students seeking admission to law school must complete a law school application and satisfy all of Brandeis’ admissions requirements, including its median GPA and LSAT expectations.

It is recommended that students planning to pursue this track have a minimum cumulative GPA of 3.5.

For more information on Brandeis and its admissions requirements, please contact the law school’s Office of Admissions. The office can also arrange for you to visit the law school and to sit in on a class.

Brandeis School of Law Office of Admissions (http://louisville.edu/law/admissions)

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH (additional required courses also satisfy the SBH &amp; D2 requirements)</td>
<td>4</td>
</tr>
<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH (additional required courses also satisfy the SBH &amp; D1 requirements)</td>
<td>6</td>
</tr>
</tbody>
</table>

Courses above satisfy the SBH, D1 and D2 requirements; students will need to complete an additional course designated SB or SBH to complete the Social & Behavioral Sciences Requirement.

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
<td>3</td>
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<tr>
<td>Minimum Total Hours</td>
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Program/Major Requirements

<table>
<thead>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Department of History</td>
<td></td>
</tr>
<tr>
<td>HIST 101 &amp; HIST 102</td>
<td>History of Civilizations I - D2, SBH &amp; History of Civilizations II - D2, SBH</td>
<td>6</td>
</tr>
<tr>
<td>HIST 211 &amp; HIST 212</td>
<td>American History I - D1, SBH &amp; American History II - D1, SBH</td>
<td>6</td>
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</table>

Pre-Modern World

Select one of the following: 3

<table>
<thead>
<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 301</td>
<td>Early Political Thought</td>
<td>1</td>
</tr>
<tr>
<td>HIST 340</td>
<td>Ancient Mediterranean World</td>
<td>1</td>
</tr>
<tr>
<td>HIST 341</td>
<td>The Ancient Near East</td>
<td>1</td>
</tr>
<tr>
<td>HIST 342</td>
<td>Ancient Greece</td>
<td>1</td>
</tr>
<tr>
<td>HIST 343</td>
<td>The Roman World</td>
<td>1</td>
</tr>
<tr>
<td>HIST 345</td>
<td>Culture of the Ancient Near East</td>
<td>1</td>
</tr>
<tr>
<td>HIST 346</td>
<td>Greek and Roman Culture</td>
<td>1</td>
</tr>
<tr>
<td>HIST 350</td>
<td>Origins of Christianity</td>
<td>1</td>
</tr>
<tr>
<td>HIST 351</td>
<td>Medieval Europe I</td>
<td>1</td>
</tr>
<tr>
<td>HIST 352</td>
<td>Medieval Europe II</td>
<td>1</td>
</tr>
<tr>
<td>HIST 356</td>
<td>Islamic Middle East</td>
<td>1</td>
</tr>
<tr>
<td>HIST 393</td>
<td>African History Before 1800 - D2, SBH</td>
<td>1</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Hours</td>
</tr>
<tr>
<td>--------</td>
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<tr>
<td>LAW 812</td>
<td>Lawyering Skills II</td>
<td>3</td>
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<tr>
<td>LAW 814</td>
<td>Property</td>
<td>4</td>
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<tr>
<td>LAW 815</td>
<td>Civil Procedure</td>
<td>4</td>
</tr>
<tr>
<td>LAW 819</td>
<td>Constitutional Law I</td>
<td>4</td>
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</table>

Minimum Total Hours 69

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

Six hours of required 500-level history courses must be completed with a grade of "C" or better.

One elective should be an approved CUE course (see list below).

### Code Title Hours

#### Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HIST 401</td>
<td>Cooperative Internship in History - CUE</td>
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<tr>
<td>HIST 504</td>
<td>Philosophy of History - CUE, WR</td>
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<tr>
<td>HIST 508</td>
<td>American Environmental History - CUE, WR</td>
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</tr>
<tr>
<td>HIST 511</td>
<td>History of the Old South - CUE, WR</td>
<td></td>
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<tr>
<td>HIST 512</td>
<td>History of the Jews in America - CUE, WR</td>
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<tr>
<td>HIST 518</td>
<td>Antebellum United States, 1800-1860 - CUE, WR</td>
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<tr>
<td>HIST 521</td>
<td>Colonial America to 1765 - CUE, WR</td>
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<tr>
<td>HIST 522</td>
<td>The American Revolution and the Confederation - CUE, WR</td>
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<tr>
<td>HIST 524</td>
<td>United States Civil War and Reconstruction - CUE, WR</td>
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<tr>
<td>HIST 528</td>
<td>Recent American History, 1929-1945 - CUE, WR</td>
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<tr>
<td>HIST 529</td>
<td>Recent American History, 1945 to Present - CUE, WR</td>
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<tr>
<td>HIST 533</td>
<td>Twentieth-Century Latin America - CUE, WR</td>
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<tr>
<td>HIST 534</td>
<td>The U.S. and Latin America - CUE, WR</td>
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<tr>
<td>HIST 535</td>
<td>The History of Mexico: Pre-Columbian to the Present - CUE, WR</td>
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<tr>
<td>HIST 540</td>
<td>Advanced Studies in History - CUE, WR</td>
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<tr>
<td>HIST 542</td>
<td>Studies in Graeco-Roman History - CUE, WR</td>
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<tr>
<td>HIST 550</td>
<td>Studies in Ancient History - CUE, WR</td>
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<td>HIST 551</td>
<td>Studies in Medieval History - CUE, WR</td>
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<tr>
<td>HIST 559</td>
<td>U.S. and the Cold War Policy - CUE, WR</td>
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<tr>
<td>HIST 561</td>
<td>U.S. and Vietnam - CUE, WR</td>
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<tr>
<td>HIST 563</td>
<td>The Middle Eastern Wars - CUE, WR</td>
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<tr>
<td>HIST 565</td>
<td>Women and Sexuality in the Middle East - CUE, WR</td>
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<tr>
<td>HIST 571</td>
<td>The Renaissance - CUE, WR</td>
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<tr>
<td>HIST 577</td>
<td>The French Revolution and Napoleon - CUE, WR</td>
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<td>HIST 579</td>
<td>History of European Ideas: Selected Topics - CUE, WR</td>
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<td>HIST 582</td>
<td>Contemporary Europe 1945-Present - CUE, WR</td>
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<tr>
<td>HIST 583</td>
<td>Women in the Twentieth Century in Europe and the U.S. - CUE, WR</td>
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<tr>
<td>HIST 590</td>
<td>Studies in African History - CUE, WR</td>
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<tr>
<td>HIST 591</td>
<td>Civilizations of Ancient and Medieval India - CUE, WR</td>
<td></td>
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<tr>
<td>HIST 592</td>
<td>Civilizations of Modern India - CUE, WR</td>
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<tr>
<td>HIST 593</td>
<td>American Image of the Middle East - CUE</td>
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History electives at the 300 level or above 6

History electives at the 500 level 6

**Law School Courses**

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<thead>
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<td>Torts I</td>
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<td>LAW 803</td>
<td>Torts II</td>
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<tr>
<td>LAW 804</td>
<td>Contracts I</td>
<td>3</td>
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<tr>
<td>LAW 805</td>
<td>Contracts II</td>
<td>3</td>
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<tr>
<td>LAW 810</td>
<td>Criminal Law</td>
<td>3</td>
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<tr>
<td>LAW 811</td>
<td>Lawyering Skills I</td>
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Flight Plan

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<tr>
<td>GEN 100</td>
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<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
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</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Social/Behavioral - SB</td>
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<td>Foreign Language 1</td>
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<tr>
<td><em>Total</em></td>
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<tr>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<tr>
<td>HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
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<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td>Fall</td>
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<tr>
<td>General Education: Cardinal Core Arts and Humanities - AH</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
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<tr>
<td>Foreign Language 3</td>
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<td>4</td>
</tr>
<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>Historical Methods - WR</td>
<td>3</td>
</tr>
<tr>
<td><em>Total</em></td>
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<td>16</td>
</tr>
<tr>
<td>Spring</td>
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<tr>
<td>HIST 212</td>
<td>American History II - D1, SBH</td>
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<tr>
<td>History Elective (300 level or above)</td>
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<tr>
<td>History Pre-Modern World Area Course (300 level or above)</td>
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<tr>
<td>History AALA Area Course (300 level or above)</td>
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<tr>
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<td><em>Total</em></td>
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<tr>
<td>Year 3</td>
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<tr>
<td>Fall</td>
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<td></td>
</tr>
<tr>
<td>Humanities or Natural Science Elective (300 level or above)</td>
<td>3</td>
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</tr>
<tr>
<td>History AALA Course (300 level or above)</td>
<td>3</td>
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</tr>
<tr>
<td>History Elective (500 level)</td>
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<td></td>
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<tr>
<td>History Elective (500 level)</td>
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<td></td>
</tr>
<tr>
<td><em>Total</em></td>
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<tr>
<td>Spring</td>
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<tr>
<td>History WR Elective (300 level or above)</td>
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</tr>
<tr>
<td>History CUE Requirement (500 level)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Humanities (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Humanities (HUM BA)

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Comparative Humanities (http://louisville.edu/humanities)
Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Program Information

The Department of Comparative Humanities facilitates the discovery, synthesis and application of ideas across disciplines. The department serves as an umbrella for collaborative efforts among the disciplines. The department offers a program as well as interdisciplinary humanities courses that encourage students to examine texts, creative expression and ideas within a cultural context. Students also explore the implication of their studies by learning to shape their own perceptions, ideas and values. Department advisers and professors work with each humanities major to create individualized programs that reflect the student’s goals and interests.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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<tr>
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<td>Track Requirements</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
</tr>
</tbody>
</table>

Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA/MA in Humanities

Students who wish to pursue an accelerated master’s degree will be allowed to apply to the baccalaureate degree up to 9 credit hours of coursework taken for graduate credit. Twenty-one (21) additional credit hours of graduate coursework will constitute the minimum number of credit hours for obtaining the MA.

Students must apply no later than the end of the junior year for admission to the accelerated program. A minimum overall grade point average and major grade point average of 3.35 will be required for admission to and for retention in the program.

The guidelines for the Accelerated BA/MA in Humanities are as follows:

- Student may take a maximum of 9 credit hours for graduate credit, which will also apply to the requirements for the baccalaureate degree in Humanities.
- The accelerated BA/MA in Humanities will be offered for the Interdisciplinary Humanities Concentration and for the Linguistics Concentration, but not for the Concentration in Humanities and Civic Leadership.
- Students who enroll in the accelerated BA/MA in Humanities may elect the thesis or non-thesis option, which ever is appropriate to the concentration and course of study.
- All students in the program will take either HUM 609 or HUM 610 to fulfill the Methodology requirement.
- All requirements remain the same, including the foreign language requirement.

Departmental Admission Requirements

Admission to the BA in Humanities requires completion of 15 semester hours and a minimum cumulative grade point average of 2.0.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA/MA in Humanities

- Students must apply no later than the end of the junior year for admission to the accelerated program.
- A minimum overall grade point average and major grade point average of 3.35 will be required for admission to and for retention in the program.
- Student must complete the GRE and fill out the Humanities Division application for the accelerated BA/MA in Humanities.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- LING 330 Language and Culture - AH, D1
- HUM 105 Introduction to Comparative Humanities - AH, D2

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

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<td>Foreign Language</td>
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<td>Electives in Natural Sciences or Social Sciences</td>
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<tr>
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<td>WR—two approved courses at the 300 level or above</td>
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Program/Major Requirements

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<td>HUM 105</td>
<td>Introduction to Comparative Humanities - AH, D2</td>
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<td>Religion and Culture</td>
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<td>HUM 320</td>
<td>Research and Writing in the Humanities - AH, WR</td>
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<td>HUM 326</td>
<td>Studies in Film and Culture</td>
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<td></td>
<td>HUM 331</td>
<td>Humanities and Gender - AH, D2</td>
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</table>
### Supporting Courses

- History elective at 300 level or above in area of track 3
- Minimum Electives 7 23

### Track Requirements

#### Track in Comparative Cultural Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>HUM 304</td>
<td>Culture of the Modern Period</td>
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<td>HUM 322</td>
<td>Modern Fiction: Twentieth Century</td>
<td>3</td>
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<tr>
<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
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<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
<td>3</td>
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<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
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<tr>
<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
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One 300-level HUM course in period or field of focus 1 3
Two courses in period or field of focus (any level) 1 6
Minimum Total Hours 18

1 Consult with an academic advisor

#### Track in Linguistics

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<td>Introduction to Linguistics</td>
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<td>Syntax</td>
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<td>LING 520</td>
<td>World Englishes</td>
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Nine credit hours in LING at the 300-level or above 9
Minimum Total Hours 18

#### Track in Religious Studies

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<td>HUM 308</td>
<td>Studies of Religion</td>
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<td>HUM 510</td>
<td>Methods and Theories in the Study of Religion - CUE, WR</td>
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</table>

Nine credit hours in Religious Studies at the 300-level or above 2 9
Minimum Total Hours 18

2 Electives in Religious Studies may be taken from the following courses: HUM 306, HUM 308, HUM 309, HUM 310, HUM 311, HUM 312, HUM 313, HUM 314, HUM 315, HUM 316, HUM 317, HUM 319, HUM 335, HUM 336, HUM 340, HUM 341, HUM 343, HUM 344, HUM 349, HUM 510, HUM 511, HUM 512, HUM 514, and HUM 516.

#### Track in Film Studies

<table>
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<td>HUM 224</td>
<td>Introduction to Film - AH, D2</td>
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<tr>
<td>HUM 324</td>
<td>Approaches to Film Interpretation</td>
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<tr>
<td>HUM 524</td>
<td>Special Topics in Film Study</td>
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</table>

Select three courses from the following:
- FREN 328 French Cinema
- HUM 325 Survey of Film and Culture
- HUM 326 Studies in Film and Culture
- PAS 312 African Americans in American Media
- PAS 341 Black Film and Literature - AH, D1
- POLS 552 Politics through Film
- SPAN 554 Hispanic Culture through Film and Media

#### Flight Plan

##### Track in Comparative Cultural Studies

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<tr>
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<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
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<tr>
<td>HUM 105</td>
<td>Introduction to Comparative Humanities - AH, D2</td>
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<td><strong>General Education:</strong></td>
<td><strong>Cardinal Core Natural Sciences with Lab</strong></td>
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<td>Foreign Language 1</td>
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<tr>
<td><strong>Spring</strong></td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>LING 330</td>
<td>Language and Culture - AH, D1</td>
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Minimum Total Hours: 15-16
**Year 2**

**Fall**
- **HUM 310** Religion and Culture 3
- **HUM 331** Humanities and Gender - AH, D2 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3
- General Education: Cardinal Core Oral Communication - OC 3
- Foreign Language 3 3-4

**Hours** 15-16

**Spring**
- **HUM 320** Research and Writing in the Humanities - AH, WR 3
- **HUM 326** Studies in Film and Culture 3
- History elective in area of track (300 level or above) 3
- General Education: Cardinal Core Natural Sciences - S 3
- Foreign Language 4 (if needed) or general elective 3

**Hours** 15

**Year 3**

**Fall**
- **HUM 304** Culture of the Modern Period 3
- Choose one of the following: 3
  - **HUM 591** Perspectives on Ancient Culture - WR
  - **HUM 592** Perspectives on Medieval Culture - WR
- Elective in Natural Science or Social Science 3
- General elective 3
- General elective 3

**Hours** 15

**Spring**
- **HUM 322** Modern Fiction: Twentieth Century 3
- **HUM 595** Principles of Cultural History - WR 3
- 300 level HUM course in period or field of focus 3
- Elective in Natural Science or Social Science (300 level or above) 3
- General Elective (300 level or above) 3

**Hours** 15

**Year 4**

**Fall**
- **HUM 509** Interdisciplinary Approaches: Arts and Humanities - CUE, WR 3
- Elective in Natural Science or Social Science (300 level or above) 3
- General elective 3
- General elective 3
- General elective 3

**Hours** 15

**Spring**
- **HUM 594** Perspectives on Modern Culture - WR 3
- Course in period or field of focus 3
- General elective 3
- General elective 3
- General elective 3

**Hours** 15

**Track in Film Studies**

<table>
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<tr>
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<tbody>
<tr>
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<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td>Introduction to Comparative Humanities - AH, D2</td>
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<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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**Foreign Language 1** 3-4

**Hours** 14-15

**Spring**
- **HUM 224** Introduction to Film - AH, D2 3
- **HUM 310** Religion and Culture 3
- General Education: Cardinal Core Oral Communication - OC 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3
- Foreign Language 3 3-4
- General elective 3

**Hours** 15-17

**Year 2**

**Fall**
- **HUM 320** Research and Writing in the Humanities - AH, WR 3
- **HUM 326** Studies in Film and Culture 3
- History elective in area of track (300 level or above) 3
- General Education: Cardinal Core Natural Sciences - S 3
- Foreign Language 4 (if needed) or general elective 3

**Hours** 15

**Spring**
- **HUM 322** Modern Fiction: Twentieth Century 3
- **HUM 595** Principles of Cultural History - WR 3
- Film Studies Elective 2 3
- Elective in Natural Science or Social Science (300 level or above) 3
- General elective 3
- General elective 3

**Hours** 15

**Year 3**

**Fall**
- **HUM 322** Modern Fiction: Twentieth Century 3
- **HUM 331** Humanities and Gender - AH, D2 3
- Film Studies Elective 1 3
- Elective in Social Science or Natural Science 3
- General elective 3

**Hours** 15

**Spring**
- **HUM 595** Principles of Cultural History - WR 3
- Film Studies Elective 2 3
- Elective in Natural Science or Social Science (300 level or above) 3
- General elective 3
- General elective 3

**Hours** 15

**Year 4**

**Fall**
- **HUM 509** Interdisciplinary Approaches: Arts and Humanities - CUE, WR 3
- Film Studies Elective 3 3
- Elective in Natural Science or Social Science (300 level or above) 3
- General elective 3
- General elective 3

**Hours** 15

**Spring**
- **HUM 524** Special Topics in Film Study 3
- General elective 3
- General elective 3
- General elective 3
- General elective 3

**Hours** 15

**Minimum Total Hours** 120-122
### Track in Linguistics

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### Track in Religious Studies

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<td>Introduction to Comparative Humanities - AH, D2</td>
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<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 3</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td>15-16</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 320</td>
<td>Research and Writing in the Humanities - AH, WR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 326</td>
<td>Studies in Film and Culture</td>
<td>3</td>
</tr>
<tr>
<td>History elective in area of track (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 4 (if needed) or general elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td>15</td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 308</td>
<td>Studies of Religion - AH</td>
<td>3</td>
</tr>
<tr>
<td>HUM 331</td>
<td>Humanities and Gender - AH, D2</td>
<td>3</td>
</tr>
<tr>
<td>Religious Studies elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective in Natural Sciences or Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
<td>3</td>
</tr>
<tr>
<td>LING 326</td>
<td>Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LING elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective in Natural Sciences or Social Sciences (300 level or above)</td>
<td>3</td>
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</tr>
<tr>
<td>General elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td>15</td>
</tr>
<tr>
<td>Year 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 509</td>
<td>Interdisciplinary Approaches: Arts and Humanities - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>Religious Studies elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective in Natural Sciences or Social Sciences (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td>15</td>
</tr>
</tbody>
</table>
General elective 3

Spring
HUM 510 Methods and Theories in the Study of Religion - CUE, WR 3
General elective 3
General elective 3
General elective 3
General elective 3

Hours 15

Minimum Total Hours 119-123

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Individualized Major (Liberal Studies) (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts Individualized Major (LBSTBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Liberal Studies (http://louisville.edu/liberalstudies)

Program Information
The Individualized Major (formerly Liberal Studies) program offers eligible students an opportunity to design an individualized major, through a multi-disciplinary curriculum. Once the student has identified a goal or interest, the Liberal Studies Program advisor offers guidance in creating a personalized degree program.

Completion of this degree requires work to be submitted for the program’s Learning Outcomes Measurement.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
</tr>
</tbody>
</table>

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Eligibility criteria and information regarding admission into the major may be found at louisville.edu/liberalstudies/prospective-majors/admission-to-liberal-studies.

Requirements include the completion of 45 credit hours and a minimum 2.75 cumulative grade point average on all college work. Proposals must be approved by the program director prior to admission into the major.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>WR—two approved courses at the 300 level or above</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>13</td>
</tr>
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</table>

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liberal Studies Program</td>
<td></td>
</tr>
<tr>
<td>LBST 300</td>
<td>Forms of Interdisciplinary Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 309</td>
<td>Inquiries in Writing - WR</td>
<td>3</td>
</tr>
<tr>
<td>LBST 401</td>
<td>Senior Capstone Project - CUE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Concentrations</td>
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</tr>
<tr>
<td></td>
<td>First Concentration (approved A&amp;S minor)</td>
<td>18-24</td>
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<tr>
<td></td>
<td>Second Concentration</td>
<td>12-18</td>
</tr>
<tr>
<td></td>
<td>Third Concentration</td>
<td>12-18</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>
Minimum Electives 10-28
Minimum Total Hours 77

At least 50 of the total minimum hours required must be at the 300 level or above with at least six credit hours in each of two of the three Divisions of the College of Arts & Sciences.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Culminating Undergraduate Experience (Graduation requirement) Requirement fulfilled by completing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LBST 401  Senior Capstone Project - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1. Completion of the intermediate level of a single foreign language
2. May be incorporated into other degree requirements
3. Fulfills one WR requirement
4. General Education courses may not be counted in the concentrations, except in cases where a General Education requirement course is a departmental requirement for completion of the minor.
5. General Education courses may not be cross-counted for the concentrations, except in cases where a General Education course is a departmental requirement for completion of the minor. (e.g., PSYC 201 may count, in an Individualized Major curriculum, toward the General Education SB requirement and also within a Psychology minor).
6. Students identifying Middle Grades Education as their goal may substitute a state-approved "Teaching Field" for the department minor. If two teaching fields are selected, a third concentration is unnecessary. See program advisor for additional information.
7. Students pursuing an Individualized Major may include course credits from University of Louisville units outside the College of Arts and Sciences. These include the Schools of Business, Education and Human Development, Engineering, Law, Music, Nursing, Public Health and Information Sciences and Social Work. No more than 30 hours earned outside the College of Arts and Sciences may be applied to the Individualized Major.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
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<td>1-3</td>
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<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Spring</th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences US Diversity - SBD1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 2</td>
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<td>4</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>16</td>
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</table>

| Year 2 |                                                 |       |
| Fall   |                                                 |       |
| General Education: Cardinal Core Natural Sciences - S | 3     |

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>14-16</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

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2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
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Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Industrial Engineering (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Industrial Engineering (IE BIE)
Unit: Speed School of Engineering (SS) (http://louisville.edu/speed)
Department: Industrial Engineering (http://louisville.edu/speed/industrial)

Program Information
Students specializing in Industrial Engineering will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Industrial Engineering—ten semesters in Departmental Studies—to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree.


Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>(19 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>124</td>
</tr>
</tbody>
</table>

General Education Requirements

The following courses are required by the program and satisfy the respective General Education Requirement(s):

- **ENGR 101** Engineering Analysis I - QR
- **ENGL 101** Introduction to College Writing - WC
- **ENGL 102** Intermediate College Writing - WC
- **CHEM 201** General Chemistry I - S
- **CHEM 207** Introduction to Chemical Analysis I - SL
- **PHYS 298** Introductory Mechanics, Heat and Sound - S
- **COMM 112** Business and Professional Speaking - OC

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the **minimum number of hours** listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Speed School Core</td>
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</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR ²</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC ³</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC ³</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S ²</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL ²</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S ²</td>
<td>4</td>
</tr>
<tr>
<td>COMM 112</td>
<td>Business and Professional Speaking - OC ¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Engineering Fundamentals ⁴</td>
<td></td>
</tr>
<tr>
<td>ENGR 151</td>
<td>Engineering Graphics Technology</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Differential Equations for Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

¹ Some courses required in this degree program satisfy multiple requirements. To complete the degree in the **minimum number of hours listed**, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).
Program/Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE 240</td>
<td>Fundamentals of Industrial Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 250</td>
<td>Data Management and Spreadsheet Modelings for IE</td>
<td>3</td>
</tr>
<tr>
<td>IE 288</td>
<td>Industrial Engineering Cooperative Education Seminar</td>
<td>0</td>
</tr>
<tr>
<td>IE 289</td>
<td>Industrial Engineering Cooperative Education I</td>
<td>1</td>
</tr>
<tr>
<td>IE 320</td>
<td>Manufacturing Processes</td>
<td>4</td>
</tr>
<tr>
<td>IE 360</td>
<td>Probability and Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>IE 370</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IE 380</td>
<td>Work Design</td>
<td>3</td>
</tr>
<tr>
<td>IE 389</td>
<td>Industrial Engineering Cooperative Education II</td>
<td>1</td>
</tr>
<tr>
<td>IE 421</td>
<td>Facility Location and Layout</td>
<td>3</td>
</tr>
<tr>
<td>IE 425</td>
<td>Production and Inventory Control</td>
<td>3</td>
</tr>
<tr>
<td>IE 430</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IE 489</td>
<td>Industrial Engineering Cooperative Education III</td>
<td>1</td>
</tr>
<tr>
<td>IE 499</td>
<td>IE Capstone Design - CUE (CUE)</td>
<td>3</td>
</tr>
<tr>
<td>IE 515</td>
<td>Operations Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>IE 516</td>
<td>Stochastic Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>IE 541</td>
<td>Simulation</td>
<td>3</td>
</tr>
<tr>
<td>IE 563</td>
<td>Experimental Design in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 580</td>
<td>Introduction to Human Factors Engineering and Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IE Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Total Hours 38

A student may accumulate no more than two D-minus, D, or D+ grades in IE prefixed courses to graduate with a baccalaureate degree. For any additional D-minus, D, or D+ grades beyond two, the student must repeat the course to earn a better grade.

Candidates for the Bachelor of Science degree must be in good standing with the university (university GPA ≥ 2.25). For any additional D-minus, D, or D+ grades beyond two, the student must repeat the course to earn a better grade.

To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

This course is a General Education requirement for the program; see louisville.edu/provost/ger/ for the listing, by academic year, of AH/D1/D2/SB/SBH Electives which satisfy the University-wide General Education requirements.

Students completing ENGL 105 in lieu of ENGL 101 and ENGL 102 satisfy the General Education and Engineering Fundamentals requirements for Written Communication. However, an additional 3-hr Written Communication (WC) course is needed to satisfy program credit hour requirements. A current list of acceptable WC courses is at louisville.edu/speed/academics/advising.

Acceptance into a Department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing with the university (university GPA ≥ 2.25).

Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENGL 101 Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGR 101 Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENGR 110 Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CHEM 201 General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 207 Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities, Social &amp; Behavioral Sciences, or Social &amp; Behavioral Sciences Historical Persepctive US Diversity - AH/D1, SB/D1, or SBH/D1</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>ENGL 102 Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGR 102 Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENGR 111 Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHYS 298 Introductory Mechanics, Heat and Sound - S</td>
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<td>PHYS 295 Introductory Laboratories I - SL</td>
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<td>Summer</td>
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<td>Year 2</td>
<td>COMM 112 Business and Professional Speaking - OC</td>
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<td>Fall</td>
<td>ENGR 205 Differential Equations for Engineering</td>
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<td>IE 240 Fundamentals of Industrial Engineering</td>
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<td>IE 250 Data Management and Spreadsheet Modelings for IE</td>
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<td></td>
<td>IE 288 Industrial Engineering Cooperative Education Seminar</td>
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<td>IE 380 Work Design</td>
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<td></td>
<td>CECS 130 Introduction to Programming Languages</td>
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Minimum Total Hours 74

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IE 499</td>
<td>IE Capstone Design - CUE</td>
<td>3</td>
</tr>
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</table>
### Latin American and Latino Studies (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts in Latin American and Latino Studies (LALSBA)**

Unit: College of Arts and Sciences (AS) ([http://www.louisville.edu/a-s](http://www.louisville.edu/a-s))

Program: Latin American and Latino Studies ([http://louisville.edu/latinamericanstudies](http://louisville.edu/latinamericanstudies))

### Program Information

Latin American and Latino Studies at the University of Louisville is an interdisciplinary program that promotes an understanding and appreciation for the diverse cultures of Latin America and Latino communities in the United States, with the ultimate objective of preparing students to become engaged citizens in our global society.

Completion of this degree requires work to be submitted for the program’s Learning Outcomes Measurement. For details, contact the LALS Director.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>College/School Requirements</td>
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<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>124</td>
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</table>

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

### Degree Audit

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. ([https://ulink.louisville.edu](https://ulink.louisville.edu))

### Departmental Admission Requirements

Admission to the BA in Latin American and Latino Studies requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: [louisville.edu/artsandsciences/advising/apply](http://louisville.edu/artsandsciences/advising/apply).
## General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">link</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- LALS 310 Introduction to Latin American Studies - D2, SB
- LALS 311 Introduction to Latino Studies - D1, SB

LALS 310 and LALS 311 satisfy 3 hours of SB requirement as well as the D1 & D2 requirements. Certain approved electives (e.g. COMM 350 or TA 365) may also satisfy general education requirements.

All degrees require the completion of the University-wide General Education Program ([link provided above](http://catalog.louisville.edu/undergraduate/general-education-requirements)). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

## College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<td>Arts &amp; Sciences Requirements</td>
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<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Electives in Humanities or Natural Sciences</td>
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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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<td>Minimum Total Hours</td>
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## Program/Major Requirements

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<td></td>
<td>Program in Latin American and Latino Studies</td>
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<td>LALS 310</td>
<td>Introduction to Latin American Studies - D2, SB</td>
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<tr>
<td>LALS 311</td>
<td>Introduction to Latino Studies - D1, SB</td>
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<tr>
<td>LALS 400</td>
<td>Latin American and Latino Studies Internship - CUE, WR (CUE)</td>
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</table>

**Language Requirement**

Spanish or Portuguese at the 200 level, or demonstration of equivalent language proficiency

3

**Humanities**

Select two of the following:

- ARTH 342 Selected Topics in Art History
- ARTH 365 Mexican Art and Architecture
- ARTH 542 Special Topics
- ARTH 544 Pan-African Art: Form and Content
- ENGL 369 Minority Traditions in American Literature - AH, D1
- ENGL 373 Women and Global Literature - AH, D2
- ENGL 549 Studies in Post-Colonial and/or Ethnic Literature - CUE
- ENGL 554 Women's Personal Narratives - CUE
- HUM 377 African-American Religion - AH, D1
- HUM 380 Culture of Iberia-Latin America
- HUM 382 Native American Cultures
- LALS 200 Exploring Latin America - AH, D2
- LALS 313 Panamanian Culture - D2, SB
- M L 260 Introduction to Hispanic Culture - AH, D2
- M L 313 Special Topics in Language, Literature, or Culture
- M L 356 Latin American Literature
- SPAN 403 Foundations of Latin American Nations and Identities
- SPAN 404 Cultural and Literary Perspectives on Modern Latin America
- SPAN 524 Introduction to Hispanic Linguistics
- SPAN 527 Latin American Literature: Colonial Period through 19th Century
- SPAN 528 Contemporary Spanish-American Theatre
- SPAN 529 Spanish-American Poetry
- SPAN 530 Spanish-American Narrative
- SPAN 554 Hispanic Culture through Film and Media
- TA 326 Cultural Diversity in Performance - AH, D1
- TA 365 Theatre of the African World - AH, D2

**Social Sciences**

Select three of the following:

- ANTH 316 Ancient Civilizations of Mesoamerica
- ANTH 325 The Anthropology of Latin America - D2, SB
- ANTH 333 Globalizing Inequalities - WR
- ANTH 338 Anthropology of Refugees
- ANTH 347 Global Capitalisms
- COMM 350 Introduction to Intercultural Communication - D2, SB
- GEOG/LALS 510 Urbanism in the Global South: Cities and Space
- HIST 331 Colonial Latin America
- HIST 332 Latin America, 1820 to Present
- HIST 333 Women in Latin American History
- HIST 533 Twentieth-Century Latin America - CUE, WR
- HIST 534 The U.S. and Latin America - CUE, WR
- HIST 535 The History of Mexico: Pre-Columbian to the Present - CUE, WR
- LALS 317 Social Sciences Special Topics in Latino Studies
- LALS 321 Social Science Special Topics in Latin American Studies
- MKT 370 Global Marketing
- PAS 206 Introduction to Caribbean Studies - D2, SB
- PAS 219 Survey of Brazilian Music
- PAS 227 Survey of American Diversity
- PAS 247 Language, Protest and Identity - D1, SB
- PAS 329 Slave Trade and Slavery
- PAS 346 African Languages in the Diaspora - D1, SB
- PAS 360 African Diaspora in the Caribbean and Latin America
- PAS 392 Faces of Global Poverty - WR
- PAS 396 History of the Caribbean
- PAS 505 The Black Atlantic
- PAS 510 Advanced Topics in Afro-American and African Studies
- PAS 532 Slave Trade and Slavery in the African World
<table>
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<tr>
<th>Code</th>
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<td>ANTH 562</td>
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<td>ARTH 342</td>
<td>Selected Topics in Art History</td>
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</tr>
<tr>
<td>ARTH 542</td>
<td>Special Topics</td>
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<td>COMM 510</td>
<td>Special Topics in Communication Studies</td>
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<tr>
<td>HIST 310</td>
<td>Studies in History</td>
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<tr>
<td>HIST 503</td>
<td>Advanced Studies in History</td>
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<td>HON 336</td>
<td>Honors Seminar in Humanities - WR</td>
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<td>HON 436</td>
<td>Honors Seminar in Humanities (WR)</td>
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<td>HUM 562</td>
<td>Selected Topics</td>
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<td>M L 551</td>
<td>Special Topics</td>
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<tr>
<td>SPAN 313</td>
<td>Special Topics in Spanish Literature, Language, and Culture</td>
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<td>SPAN 499</td>
<td>Special Topics in Spanish Culture, Literature and Linguistics</td>
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<td>SPAN 599</td>
<td>Special Topics</td>
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<tr>
<td>TA 555</td>
<td>Special Topics in Theatre</td>
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</tbody>
</table>

**Flight Plan**

**Year 1**

**Fall**

- GEN 100  
  1. Student Success Center Orientation
  or GEN 101
  2. or Arts and Sciences Orientation
- ENGL 101  
  3. Introduction to College Writing - WC
- General Education: Cardinal Core Quantitative Reasoning - QR
- Spanish or Portuguese Language I
- General Elective

**Year 2**

**Fall**

- General Education: Cardinal Core Arts & Humanities - AH
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH
- General Education: Cardinal Core Oral Communication - OC

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1. Completion of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Fulfills WR requirement
5. 6 of the 9 hours must be at the 300 level or above
6. Students also completing a second major in any of the areas listed below may use no more than 6 hours in that Department to fulfill this LALS requirement.
7. Select three courses from above not used to meet the Humanities or Social Science requirements.
8. Other than LALS courses, in addition to courses used to complete the College Programmatic Requirements.
9. Substitutions may be approved by the LALS Director. Consult the LALS Advisor about Special Topics Courses and Independent Studies that may fulfill requirements for the major. Special Topics Courses that may have LALS content include:
10. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
Spanish or Portuguese Language III 4
LALS 310 Introduction to Latin American Studies - D2, SB 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
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<td>Humanities or Natural Science Elective</td>
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<td>General Elective</td>
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<tr>
<td>Spanish or Portuguese Language (200 level)</td>
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<td>LALS 311 Introduction to Latino Studies - D1, SB</td>
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Year 3

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<tr>
<td>Humanities or Natural Science Elective (300 level or above)</td>
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<td>Social Science LALS Elective</td>
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<td>Humanities LALS Elective</td>
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<td>General Elective</td>
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<td>WR General Elective (300 level or above)</td>
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<tr>
<td>Spring</td>
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<td>Social Science LALS Elective (300 level or above)</td>
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<tr>
<td>Humanities LALS Elective</td>
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<td>Social Science Elective (300 level or above)</td>
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Year 4

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<td>LALS 400 Latin American and Latino Studies Internship - CUE, WR</td>
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<td>Social Science Elective (300 level or above)</td>
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</table>

Minimum Total Hours 121

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Mathematics (MATHBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Mathematics (http://www.math.louisville.edu)

The Bachelor of Arts in Mathematics is designed for students wishing to obtain a broad yet substantial background in mathematics as well as general education. The Bachelor of Arts covers a wide variety of topics such as algebra, geometry, and probability. This breadth is particularly well-suited for students preparing for secondary certification in mathematics.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>College/School Requirements</td>
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<tr>
<td>Minimum Total Hours</td>
<td>121</td>
<td></td>
</tr>
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</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA/BS-MA Option in Mathematics

Students must apply for admission to the program no later than the end of the junior year and must have completed MATH 205, MATH 206, MATH 301, and MATH 325, or equivalent courses, prior to application.

Applicants must have a minimum overall GPA of 3.5, and minimum GPA of 3.66 in mathematics courses. As part of the combined degree, students must complete MATH 405 and at least four (4) of the following: MATH 501, MATH 502, MATH 521, MATH 522, MATH 561, MATH 562,
Early Start Program (Jointly with the College of Education and Human Development)

The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 148 credits are required for the dual degrees: 121 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) MAT program in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by discipline. Students enrolling in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Students. All interested students must submit an application to the College of Education and Human Development (CEHD) MAT program and meet the admission criteria.

Departmental Admission Requirements

Admission to the BA in Mathematics requires the following:

- enrollment in a mathematics course beyond MATH 205;
- a minimum cumulative grade point average of 2.0; and
- a minimum grade point average of 2.0 on all courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA/BS-MA Option in Mathematics

Students must apply for admission to the program no later than the end of the junior year and must have completed MATH 205, MATH 206, MATH 301, and MATH 325, or equivalent courses, prior to application.

General Education Requirements

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
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<tr>
<td>MATH 311</td>
<td>Introduction to Higher Math</td>
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<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
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<td>MATH 387</td>
<td>Discrete Mathematics</td>
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<td>MATH 501</td>
<td>Introduction to Analysis I - CUE</td>
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<td>MATH 521</td>
<td>Modern Algebra I - CUE</td>
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<td>MATH 550</td>
<td>Advanced Euclidean Geometry</td>
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<td>MATH 551</td>
<td>Geometry</td>
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<td>MATH 560</td>
<td>Statistical Data Analysis - WR</td>
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<td>MATH 561</td>
<td>Probability</td>
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</table>

Mathematics electives chosen in consultation with departmental advisor

Supporting Courses

Select one of the following sequences: 7-10

**Sequence One:**

- PHYS 295 Introductory Laboratories I - SL
- PHYS 296 Introductory Laboratories II - SL
- PHYS 298 Introductory Mechanics, Heat and Sound - S
- PHYS 299 Introductory Electricity, Magnetism and Light

**Sequence Two:**

- CHEM 201 General Chemistry I - S
- CHEM 202 General Chemistry II - S
- CHEM 207 Introduction to Chemical Analysis I - SL
- CHEM 208 Introduction to Chemical Analysis II - SL
- CHEM 209 Introduction to Chemical Analysis III

**Sequence Three:**

- BIOL 240 Unity of Life - S
University of Louisville

BIOL 242  Diversity of Life
BIOL 244  Principles of Biology Laboratory - SL 4

Elective in second science discipline 3
Electives in Natural Sciences, other than Mathematics 5-8

Electives
Minimum Electives 5 14
Minimum Total Hours 68

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

Mathematics courses at the 100 level do not count toward hours in the major.

At least 50 of the total minimum hours required must be at the 300 level or above.

A minimum of 9 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 501</td>
<td>Introduction to Analysis I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 521</td>
<td>Modern Algebra I - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1. Completion of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Fulfills General Education requirement.
5. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Flight Plan

Course | Title                                               | Hours |
-------|-----------------------------------------------------|-------|
Year 1  |                                                    |       |
Fall    |                                                    |       |
GEN 100 | Student Success Center Orientation                 | 1     |
or GEN 101 | or Arts and Sciences Orientation              |       |
ENGL 101 | Introduction to College Writing - WC          | 3     |
MATH 205 | Calculus I - QR                                  | 4     |
General Education: Cardinal Core Oral Communication - OC | 3     |
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH | 3     |
General Elective |                                  | 3     |
Hours  |                                                    | 17    |
Spring  |                                                    |       |
ENGL 102 | Intermediate College Writing - WC                 | 3     |
General Education: Cardinal Core Arts & Humanities - AH | 3     |
MATH 206 | Calculus II                                      | 4     |
MATH 311 | Introduction to Higher Math                      | 3     |
Foreign Language 1 |                                     | 3-4   |
Hours  |                                                    | 16-17 |
Year 2  |                                                    |       |
Fall    |                                                    |       |
General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 | 3     |
Foreign Language 2 |                                        | 3-4   |
MATH 301 | Calculus III                                     | 4     |
General Elective (300 level or above) | 3     |
General Elective (300 level or above) | 3     |
| Hours | 16-17 |
Spring  |                                                    |       |
MATH 325 | Introduction to Linear Algebra                    | 3     |
General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SB1 | 3     |
Foreign Language 3 |                                 | 3-4   |
Humanities or Social Science Elective (300 level or above) | 3     |
General Elective |                                      | 3     |
| Hours | 15-16 |
Year 3  |                                                    |       |
Fall    |                                                    |       |
MATH 387 | Discrete Mathematics                              | 3     |
First portion of chosen Natural Science Sequence | 3-5   |
Foreign Language 4 or General Elective | 3     |
Humanities or Social Science WR Elective (300 level or above) | 3     |
General Elective (300 level or above) | 3     |
| Hours | 15-17 |
Spring  |                                                    |       |
Humanities or Social Science WR Elective (300 level or above) | 3     |
Natural Science Elective (not from chosen sequence) (also fulfills General Education/Cardinal Core Natural Science Requirement - S) | 3     |
Second portion of chosen Natural Science Sequence (also fulfills General Education/Cardinal Core Natural Science with Lab Requirement - S+SL or B) | 4-5   |
MATH 550 | Advanced Euclidean Geometry                       | 3     |
or MATH 551 | or Geometry                             |       |
MATH 560 | Statistical Data Analysis - WR                   | 3     |
or MATH 561 | or Probability                           |       |
| Hours | 16-17 |
Year 4  |                                                    |       |
Fall    |                                                    |       |
MATH 501 | Introduction to Analysis I - CUE                  | 3     |
MATH 521 | Modern Algebra I - CUE                           | 3     |
Natural Science Elective (non-Math) | 3-4   |
General Elective |                                      | 3     |
General Elective |                                  | 3     |
| Hours | 15-16 |
Spring  |                                                    |       |
Math Elective |                                                | 3     |
General Elective (300 level or above) | 3     |
General Elective |                                  | 3     |
General Elective |                                  | 3     |
| Hours | 12    |
Minimum Total Hours |                              | 122-129 |

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."
Click here to run a Degree Audit report, or create a What-if report. ([https://ulink.louisville.edu](https://ulink.louisville.edu))

Mathematics (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Mathematics (MATHBS)
Unit: College of Arts and Sciences (AS) ([http://www.louisville.edu/a-s](http://www.louisville.edu/a-s))
Department: Mathematics ([http://www.math.louisville.edu](http://www.math.louisville.edu))

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>(7-10 hours of General Education requirements may be satisfied through coursework required by the degree program)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>68-70</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>22-23</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>122-125</td>
</tr>
</tbody>
</table>

1. Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Accelerated BA/BS-MA Option in Mathematics

Students must apply for admission to the program no later than the end of the junior year and must have completed MATH 205, MATH 206, MATH 301, and MATH 325, or equivalent courses, prior to application.

Applicants must have a minimum overall GPA of 3.5, and minimum GPA of 3.66 in mathematics courses. As part of the combined degree, students must complete MATH 405 and at least four (4) of the following: MATH 501, MATH 502, MATH 521, MATH 522, MATH 561, MATH 562, or MATH 581, including at least one sequence from among these courses.

The student may take a maximum of nine (9) credit hours for graduate credit, which will also apply to the requirements for the baccalaureate degree in Mathematics. All 600-level courses numbered 689 or below qualify, as do 500-level courses when completed in accord with the stipulations for graduate credit outlined in the syllabus.

### Early Start Program (Jointly with the College of Education and Human Development)

The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 149-152 credits are required for the dual degrees: 122-125 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by discipline. Students enrolling in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Students. All interested students must submit an application to the College of Education and Human Development (CEHD) MAT program and meet the admission criteria.

### Departmental Admission Requirements

Admission to the BS in Mathematics requires enrollment in a mathematics course beyond MATH 205; a minimum cumulative grade point average of 2.0; and a minimum grade point average of 2.0 on all mathematics course beyond MATH 205, including at least one sequence from among these courses.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and satisfy the respective General Education Requirement(s):

- MATH 205 Calculus I - QR
- PHYS 298 Introductory Mechanics, Heat and Sound - S
- or CHEM 201 General Chemistry I - S
- or BIOL 240 Unity of Life - S
- PHYS 295 Introductory Laboratories I - SL
- or CHEM 201 Introduction to Chemical Analysis I - SL
- or BIOL 244 Principles of Biology Laboratory - SL

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in
the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
<td>6-8</td>
</tr>
<tr>
<td>Electives in Humanities or Social Sciences, at the 300 level or above</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 13-15

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 311</td>
<td>Introduction to Higher Math</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 387</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 501</td>
<td>Introduction to Analysis I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>MATH 502</td>
<td>Introduction to Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 521</td>
<td>Modern Algebra I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>MATH 522</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 561</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 507</td>
<td>Fourier Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 511</td>
<td>Complex Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 512</td>
<td>Complex Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Modeling I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 536</td>
<td>Modeling II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 550</td>
<td>Advanced Euclidean Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 551</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 562</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to Graph Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Supporting Courses

Select one of the following sequences: 7

Sequence One:
- PHYS 298 | Introductory Mechanics, Heat and Sound - S
- PHYS 299 | Introductory Electricity, Magnetism and Light
- PHYS 295 | Introductory Laboratories I - SL
- PHYS 296 | Introductory Laboratories II - SL

Sequence Two:
- CHEM 201 | General Chemistry I - S
- CHEM 202 | General Chemistry II - S
- CHEM 207 | Introduction to Chemical Analysis I - SL

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

Program/Major requirements and Supporting Courses for Track in Actuarial Science are articulated on the Track Requirements tab.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>3</td>
</tr>
<tr>
<td>MATH 209</td>
<td>Introduction to Chemical Analysis III</td>
<td></td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td></td>
</tr>
<tr>
<td>Elective in second science discipline</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CECS 130</td>
<td>Introduction to Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Natural Sciences (other than Mathematics)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minimum Electives</td>
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<td>0</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>68-70</td>
<td></td>
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</tbody>
</table>

Track Requirements

Track in Actuarial Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 207</td>
<td>Introduction to Higher Math</td>
<td>3</td>
</tr>
</tbody>
</table>
### Supporting Courses
Select one of the following sequences: 3

<table>
<thead>
<tr>
<th>Sequence One:</th>
<th>4-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sequence Two:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sequence Three:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
</tr>
<tr>
<td>BIOL 104</td>
<td>Laboratory for Biology: Current Issues and Applications - SL</td>
</tr>
</tbody>
</table>

**Elective in second science discipline** 3

<table>
<thead>
<tr>
<th>CIS 300</th>
<th>Computer Information Systems 4 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 380</td>
<td>Introduction to Econometrics 4 3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>Corporate Finance 4 3</td>
</tr>
<tr>
<td>FIN 401</td>
<td>Investments 4 3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 64-65

1. Mathematics courses at the 100 level do not count toward hours in the major.
2. A minimum of 12 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.
3. Fulfills General Education requirement
4. Students must be admitted to the College of Business prior to enrollment in these courses

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

## Flight Plan

### Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
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</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

| Year 2 | | |
| **Fall** | | |
| General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 | 3 |
| General Elective | 3 |
| Foreign Language 2 | 3-4 |
| MATH 301 | Calculus III | 4 |
| MATH 325 | Introduction to Linear Algebra | 3 |
| **Hours** | 16-17 |

| **Spring** | | |
| General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SBDI | 3 |
| General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH | 3 |
| Humanities or Social Science WR Elective (300 level or above) | 3 |
| Math Elective | 3 |
| MATH 501 | Introduction to Analysis I - CUE or Modern Algebra I - CUE | 3 |
| **Hours** | 15 |

| **Year 3** | | |
| **Fall** | | |
| Humanities or Social Science WR Elective (300 level or above) | 3 |
| MATH 387 | Discrete Mathematics | 3 |
| MATH 501 | Introduction to Analysis I - CUE or Modern Algebra I - CUE | 3 |
| MATH 561 | Probability | 3 |
| First portion of chosen Natural Science sequence | 3-5 |
| **Hours** | 16-17 |

| **Spring** | | |
| Second portion of chosen Natural Science sequence (also fulfills portion of Gen Ed Natural Science requirement - S/SL/B) | 4-5 |
| Natural Science Elective (not from chosen sequence) (also fulfills portion of Gen Ed Natural Science requirement - S) | 3 |
| Math Elective | 3 |
| MATH 502 | Introduction to Analysis II or Modern Algebra II | 3 |
| CECS 130 | Introduction to Programming Languages | 3 |
| **Hours** | 16-17 |

| **Year 4** | | |
| **Fall** | | |
| MATH 521 | Modern Algebra II or Introduction to Analysis II | 3 |
| Math Elective | 3 |
| General Elective | 3 |
| General Elective (300 level or above) | 3 |
| Natural Science Elective (non-Math) or second computer-related course | 3 |
| **Hours** | 15 |

| **Spring** | | |
| MATH 522 | Modern Algebra II or Introduction to Analysis II | 3 |
| Math Elective | 3 |
| General Elective | 3 |
| General Elective | 3 |
Mathematics with a Track in Actuarial Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100 or</td>
<td>Student Success Center Orientation or</td>
<td>1</td>
</tr>
<tr>
<td>GEN 101</td>
<td>Arts and Sciences Orientation</td>
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</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General</td>
<td>Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 311</td>
<td>Introduction to Higher Math</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>Education: Cardinal Arts &amp; Humanities Global Diversity - AHD2</td>
<td>3</td>
</tr>
<tr>
<td>Foreign</td>
<td>Language 1</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
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<td>13-14</td>
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<tr>
<td><strong>Spring</strong></td>
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<td></td>
</tr>
<tr>
<td>Foreign</td>
<td>Language 2</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 372</td>
<td>Theory of Interest</td>
<td>3</td>
</tr>
<tr>
<td>MATH 387</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 561</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>Education: Cardinal Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
</tr>
<tr>
<td>MATH 562</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 570</td>
<td>Foundations of Actuarial Science</td>
<td>3</td>
</tr>
<tr>
<td>FIN 401</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>General</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
<td>3</td>
</tr>
<tr>
<td>Chosen</td>
<td>Natural Science Sequence (lecture &amp; lab)</td>
<td>4-5</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>FIN 414</td>
<td>Applied Financial Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>Finance</td>
<td>Minor Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>16-17</td>
</tr>
</tbody>
</table>

**Minimum Total Hours: 122-127**

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

**Mechanical Engineering (BS)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Mechanical Engineering (ME BMC)**

Unit: Speed School of Engineering (SS) (http://speed.louisville.edu/cms/content.php)

Department: Mechanical Engineering (http://louisville.edu/speed/mechanical)

**Program Information**

Students specializing in Mechanical Engineering will complete a program consisting of two semesters in Engineering Fundamentals and a further period of study in the Department of Mechanical Engineering—ten semesters in Departmental Studies—to complete the Bachelor of Science degree, followed by a fifth year in Graduate Studies for the Master of Engineering degree. This curriculum is structured as an integrated five-
year program, with a cooperative education component, culminating in the Master of Engineering degree.


Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>31</td>
</tr>
</tbody>
</table>

Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Acceptance into a Speed School academic department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25/4.0).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>31</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - QR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice I</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following: 2

- COMM 111 Introduction to Public Speaking - OC | 3 |
- COMM 112 Business and Professional Speaking - OC | 3 |

Engineering Fundamentals 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 151</td>
<td>Engineering Graphics Technology</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Differential Equations for Engineering</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 307</td>
<td>Numerical Methods for Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum Total Hours 38

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 206</td>
<td>Mechanics II: Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 251</td>
<td>Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>ME 288</td>
<td>Mechanical Engineering Cooperative Education Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ME 289</td>
<td>Mechanical Engineering Cooperative Education I</td>
<td>1</td>
</tr>
<tr>
<td>ME 310</td>
<td>Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>ME 311</td>
<td>Fluid Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>ME 312</td>
<td>Fluid Mechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ME 323</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 324</td>
<td>Mechanics of Materials Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ME 380</td>
<td>Computer Aided Design</td>
<td>2</td>
</tr>
<tr>
<td>ME 381</td>
<td>Introduction to Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>ME 389</td>
<td>Mechanical Engineering Cooperative Education II</td>
<td>1</td>
</tr>
<tr>
<td>ME 401</td>
<td>Fluid Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>ME 414</td>
<td>Mechanical Measurements</td>
<td>3</td>
</tr>
<tr>
<td>ME 415</td>
<td>Senior Mechanical Engineering Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ME 422</td>
<td>Machine Design I</td>
<td>3</td>
</tr>
<tr>
<td>ME 435</td>
<td>System Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 440</td>
<td>Heat Transfer</td>
<td>3</td>
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<tr>
<td>ME 442</td>
<td>Machine Design II</td>
<td>3</td>
</tr>
<tr>
<td>ME 489</td>
<td>Mechanical Engineering Cooperative Education III</td>
<td>1</td>
</tr>
<tr>
<td>ME 497</td>
<td>Mechanical Engineering Capstone Design Project - CUE (CUE)</td>
<td>3</td>
</tr>
</tbody>
</table>

ME 5XX Electives 6
Candidates for the Bachelor of Science degree must be in good standing (GPA ≥ 2.25) and must attain a GPA of at least 2.25 for all courses used to satisfy degree requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>CCE 130</td>
<td>Introduction to Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CEE 205</td>
<td>Mechanics I: Statics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 253</td>
<td>Materials Science</td>
<td>3</td>
</tr>
<tr>
<td>ECE 252</td>
<td>Introduction to Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 370</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 75

Acceptance into a Speed School academic department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).

**Flight Plan**

### Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Analysis I - OR</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Engineering Methods, Tools, and Practice</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
</tbody>
</table>
| CHEM 207 | Introduction to Chemical Analysis I - SL | 1 | 16

| General Education: Cardinal Core Arts & Humanities, Social & Behavioral Sciences, or Social & Behavioral Sciences Historical Persepective - AH, SB, or SBH | 3 |

### Year 2

<table>
<thead>
<tr>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>CEE 130</td>
<td>Introduction to Programming Languages</td>
</tr>
<tr>
<td>ENGR 288</td>
<td>Mechanical Engineering Cooperative Education Seminar</td>
</tr>
<tr>
<td>CHE 253</td>
<td>Materials Science</td>
</tr>
<tr>
<td>ME 324</td>
<td>Mechanics of Materials Laboratory</td>
</tr>
<tr>
<td>Hours</td>
<td>11</td>
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<table>
<thead>
<tr>
<th>Winter</th>
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</thead>
<tbody>
<tr>
<td>ENGR 102</td>
<td>Engineering Analysis II</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Engineering Methods, Tools and Practice II</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
</tr>
</tbody>
</table>

### Year 3

<table>
<thead>
<tr>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>ME 389</td>
<td>Mechanical Engineering Cooperative Education II</td>
</tr>
<tr>
<td>Hours</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 252</td>
<td>Introduction to Electrical Engineering</td>
</tr>
<tr>
<td>ENGR 311</td>
<td>Fluid Mechanics I</td>
</tr>
<tr>
<td>ME 312</td>
<td>Fluid Mechanics Laboratory</td>
</tr>
<tr>
<td>ME 388</td>
<td>Computer Aided Design</td>
</tr>
<tr>
<td>ME 389</td>
<td>Introduction to Manufacturing</td>
</tr>
<tr>
<td>ME 422</td>
<td>Machine Design I</td>
</tr>
<tr>
<td>Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ME 489</td>
<td>Mechanical Engineering Cooperative Education III</td>
</tr>
<tr>
<td>Hours</td>
<td>1</td>
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</table>

### Year 4

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
</tr>
<tr>
<td>or HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
</tr>
<tr>
<td>ENGR 307</td>
<td>Numerical Methods for Engineering</td>
</tr>
<tr>
<td>ME 401</td>
<td>Fluid Mechanics II</td>
</tr>
<tr>
<td>ME 414</td>
<td>Mechanical Measurements</td>
</tr>
<tr>
<td>ME 415</td>
<td>Senior Mechanical Engineering Laboratory</td>
</tr>
<tr>
<td>ME 442</td>
<td>Machine Design II</td>
</tr>
<tr>
<td>Mechanical Engineering Elective I (500 level)</td>
<td>3</td>
</tr>
<tr>
<td>Hours</td>
<td>18</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
</tr>
<tr>
<td>or HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
</tr>
<tr>
<td>Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

| General Education: Cardinal Core Arts & Humanities, Social & Behavioral Sciences, or Social & Behavioral Sciences Historical Persepective - AH, SB, or SBH | 3 |

**Acceptance into a Speed School academic department requires that a student have a 2.25 GPA in the prescribed set of courses totaling 30 semester hours in Engineering Fundamentals. In addition, the student must be in good standing (university GPA ≥ 2.25).**
Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements ¹</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Track Requirements ¹</td>
<td>70-80</td>
</tr>
</tbody>
</table>

Minimum Total Hours 125

¹ Some courses required in this degree program may satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree and Track Requirements tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission requirements for this program include the following:

- Minimum of 45 semester hours completed
- 2.75 or higher overall GPA with a 3.0 or higher overall GPA in EDTP 107 and EDTP 201
- Minimum test scores as required by the Education Professional Standards Board
- Grade of C or better in ENGL 102 (or equivalent)
- Grade of C or better in Oral Communication course
- Other requirements as outlined in Application Packet.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
</tbody>
</table>

The following course is required by all tracks in the degree program and satisfies the respective General Education Requirement(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
<td></td>
</tr>
</tbody>
</table>

Please see the Track Requirements to determine additional courses that will satisfy both a major and General Education requirement. These courses should be taken to fulfill the respective General Education Requirement.

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-Professional Courses</td>
<td></td>
</tr>
<tr>
<td>EDTP 101</td>
<td>Academic Orientation</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Some courses required in this degree program may satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree and Track Requirements tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Middle/Secondary Education (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Middle and Secondary Education

Unit: College of Education and Human Development (http://louisville.edu/education) (ED)

Department: Middle and Secondary Education (http://louisville.edu/education/departments/mise) (MISE)

Program Information

The Department of Middle and Secondary Education, in partnership with area schools, prepares teachers to be exemplary professional practitioners and scholars who are strong in their content knowledge as well as in effective research-informed teaching strategies. It is through the preparation of the strongest teachers that we seek to continually improve the quality of life for all in our community.

The Department of Middle and Secondary Education (MISE) offers a wide variety of programs and degrees for those interested in becoming a teacher (initial certification).
### Mid-Point Assessment Prior to Student Teaching

Satisfactory dispositions assessment; Satisfactory mid-point teacher performance assessment (TPA); Positive recommendation from Middle/Secondary Program Committee; Completion of required core and methods courses; Completion of each methods course with a 2.0 or better. Electronic documentation of 200 hours of diverse and approved field experiences.

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 328</td>
<td>Building Learning Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 330</td>
<td>Building Learning Communities Field Experience</td>
<td></td>
</tr>
<tr>
<td>EDTP 355</td>
<td>Assessment and Research</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td></td>
</tr>
<tr>
<td>EDTP 506</td>
<td>Public Schools in America: Understanding our Past</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 345</td>
<td>Special Populations in Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 346</td>
<td>Special Populations in Schools Field Experience</td>
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</tr>
<tr>
<td>EDTP 477</td>
<td>Capstone Student Teaching Seminar - CUE</td>
<td>3</td>
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</tbody>
</table>

**Core Professional Courses**

**Track Requirements**

**Track in Biology (Grades 8-12)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 301</td>
<td>General Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 424</td>
<td>High School Science Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 419</td>
<td>Student Teaching: High School</td>
<td>9</td>
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</tbody>
</table>

**Competency Area Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 409</td>
<td>Evolutionary Biology - CUE</td>
<td>3</td>
</tr>
<tr>
<td>BIOL Elective 300 level or above</td>
<td>3</td>
<td></td>
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<tr>
<td>CHEM 201</td>
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**Supporting Courses**

<table>
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<tr>
<td>GEOS 200</td>
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**Minimum Total Hours**

70-80

### Degree Assessment

2.0 or higher in Student Teaching; satisfactory teacher performance assessment (TPA); 2.50 GPA in content area; 3.0 GPA in Professional Core.

### Certification Assessment

Passing scores on required PRAXIS exams; satisfactory dispositions assessment.

### Track in Chemistry (Grades 8-12)

**MISEBS CHE**

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**Competency Area Courses**

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<td>CHEM 202</td>
<td>General Chemistry II - S</td>
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<td>Introduction to Chemical Analysis IV</td>
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<td>Organic Chemistry Laboratory I</td>
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<td>CHEM 470</td>
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<td>Introduction to Separations and Spectroscopy - WR</td>
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<td>CHEM 445</td>
<td>Survey of Biochemistry</td>
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<td>or CHEM 515</td>
<td>Inorganic Chemistry</td>
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**Supporting Courses**

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Track in Earth and Space Science (Grades 8-12)  
(MISEBS EAS)

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<td>High School Science Methods</td>
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<td>EDTP 419</td>
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**Competency Area Courses**

| BIOL 240 | Unity of Life - S                             | 3     |
| BIOL 242 | Diversity of Life                             | 3     |
| BIOL 244 | Principles of Biology Laboratory - SL         | 2     |
| GEOS 200 | The Global Environment - S                    | 3     |
| GEOS 360 | Global Environmental Change                   | 3     |
| GEOS 363 | Climate Science                               | 3     |
| GEOS 367 | Geomorphology                                 | 3     |
| GEOS 564 | Hydrology                                     | 3     |
| PHYS 107 | Elementary Astronomy - S                      | 3     |
| PHYS 108 | Elementary Astronomy Laboratory - SL          | 1     |
| PHYS 220 | Contemporary Issues in Meteorology - S        | 3     |

**Supporting Courses**

| CHEM 201 | General Chemistry I - S                      | 3     |
| CHEM 202 | General Chemistry II - S                     | 3     |
| CHEM 207 | Introduction to Chemical Analysis I - SL      | 1     |
| CHEM 208 | Introduction to Chemical Analysis II - SL     | 1     |
| CHEM 209 | Introduction to Chemical Analysis III         | 1     |
| PHYS Elective |                                      | 3     |

**Minimum Total Hours**

73

Track in English (Grades 8-12)  
(MISEBS ENG)

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<tr>
<td>EDTP 419</td>
<td>Student Teaching: High School</td>
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</table>

**Competency Area Courses**

| ENGL 310 | Writing About Literature for Non-Majors - WR | 3     |
| ENGL 506 | Teaching of Writing - CUE, WR                | 3     |

**Select survey courses from three of the four different survey/periods:**

9

**Division A:**

| ENGL 301 | British Literature I                         |         |
| ENGL 413 | British Literature from the Beginning through Shakespeare - WR |         |
| ENGL 414 | British Literature from Shakespeare through the Neoclassical Period - WR |         |

**Division B:**

| ENGL 302 | British Literature II                        |         |
| ENGL 415 | Nineteenth-Century British Literature - WR    |         |
| ENGL 416 | Modern British and Irish Literature - WR      |         |
| ENGL 417 | Contemporary British and Post-Colonial Literature - WR |         |

**Division C:**

| ENGL 311 | American Literature I                        |         |
| ENGL 418 | American Literature to 1830 - WR             |         |
| ENGL 419 | American Literature from 1830 to 1865 - WR    |         |
## Track in French (Grades P-12) (MISEBS FRE)

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<tr>
<td>ENGL 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
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<tr>
<td>ENGL 368</td>
<td>Minority Traditions in English Literatures - AH, D2</td>
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<tr>
<td>ENGL 369</td>
<td>Minority Traditions in American Literature - AH, D1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 549</td>
<td>Studies in Post-Colonial and/or Ethnic Literature - CUE</td>
<td>3</td>
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<tr>
<td>ENGL 567</td>
<td>Post-Colonial Voices: Writing Experience in African Literature - CUE, WR</td>
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Select one of the following Shakespearian Literature courses: 3

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<td>ENGL 334</td>
<td>Shakespeare II</td>
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<td>ENGL 562</td>
<td>Shakespeare - CUE</td>
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Select one of the following Minority Literature courses: 3

<table>
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<tbody>
<tr>
<td>ENGL 342</td>
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<tr>
<td>ENGL 369</td>
<td>Minority Traditions in American Literature - AH, D1</td>
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<tr>
<td>ENGL 549</td>
<td>Studies in Post-Colonial and/or Ethnic Literature - CUE</td>
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<tr>
<td>ENGL 567</td>
<td>Post-Colonial Voices: Writing Experience in African Literature - CUE, WR</td>
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Select one of the following English Language courses: 3

<table>
<thead>
<tr>
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<tr>
<td>ENGL 518</td>
<td>Foundations of Language</td>
<td>3</td>
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<td>ENGL 522</td>
<td>Structure of Modern English</td>
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<td>ENGL 535</td>
<td>Topics in Applied Linguistics</td>
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<tr>
<td>EDCP 522</td>
<td>Methods of Teaching Grammar, K-12</td>
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Select one of the following Gender in Literature courses: 3

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ENGL 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
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<tr>
<td>ENGL 373</td>
<td>Women and Global Literature - AH, D2</td>
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Or other course approved by advisor.

ENGL Elective 500 level 3

**Supporting Courses**

Ancient through Renaissance Culture course: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HUM 301</td>
<td>Ancient Greek and Roman Cultures</td>
<td>3</td>
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<tr>
<td>HUM 302</td>
<td>Medieval Culture</td>
<td>3</td>
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<tr>
<td>HUM 303</td>
<td>Renaissance Cultures</td>
<td>3</td>
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<tr>
<td>HUM 338</td>
<td>Greek Mythology</td>
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<td>HUM 339</td>
<td>Studies in World Mythology - AH, D2</td>
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<tr>
<td>HUM 354</td>
<td>Masterpieces of Ancient Greece - WR</td>
<td>3</td>
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<tr>
<td>HUM 355</td>
<td>Masterpieces of Ancient Rome - WR</td>
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<tr>
<td>HUM 356</td>
<td>Masterpieces of the Middle Ages - WR</td>
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<tr>
<td>HUM 357</td>
<td>Masterpieces of the Renaissance - WR</td>
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HUM Electives 300 level or above 9

<table>
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<tr>
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<tbody>
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<td>EDAP 597</td>
<td>Seminar in Elementary Education</td>
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Or TA 300 level or above

Electives 16

Minimum Total Hours 76

---

## Track in Mathematics and English (Grades 5-9) (MISEBS MEN)

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<tr>
<th>Code</th>
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<tr>
<td>EDTP 407</td>
<td>Middle School Language Arts Methods</td>
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</tr>
<tr>
<td>EDTP 408</td>
<td>Middle School Mathematics Methods</td>
<td>3</td>
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**Student Teaching Requirement**

EDTP 417 | Student Teaching: Middle School            | 9     |

**Competency Area Courses**

MATH 107 | Finite Mathematics (or Approved Substitute) | 3     |
MATH 109 | Elementary Statistics - QR                 | 3     |
MATH 151 | Mathematics for Elementary Education 1      | 3     |

Select one of the following: 4

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<tr>
<td>MATH 190</td>
<td>Precalculus - QR 4</td>
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<tr>
<td>MATH 111</td>
<td>College Algebra - QR</td>
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</table>
& MATH 112 | Trigonometry 4                             | 4     |
MATH 205 | Calculus I - QR 4                           | 4     |
MATH 180 | Elements of Calculus - QR                  | 4     |
MATH 350 | Geometric Investigations                    | 3     |
MATH 451 | Problem Solving in Number Systems and Discrete Mathematics | 3     |
PHYS 111 | Elements of Physics - B 1                  | 3     |
ENGL 202 | Introduction to Creative Writing           | 3     |
ENGL 310 | Writing About Literature for Non-Majors - WR | 3     |
ENGL 506 | Teaching of Writing - CUE, WR              | 3     |

British Literature at the 300 or 400 level 3

American Literature at the 300 or 400 level 3

Select one of the following Minority Literature courses: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGL 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
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<td>ENGL 369</td>
<td>Minority Traditions in American Literature - AH, D1</td>
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</table>
### Track in Mathematics — Leading to Certification in Grades 5-9, and Learning and Behavior Disorders — Leading to Certification in Grades P-12

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<td>EDTP 408</td>
<td>Middle School Mathematics Methods</td>
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<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
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<td>Contemporary Issues in Meteorology - S</td>
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<td>Geology for Scientists and Engineers</td>
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<td>Principles of Biology Laboratory - SL</td>
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### Track in Mathematics and Science (Grades 5-9)

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<td>Competency Area Courses</td>
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<tr>
<td>MATH 107</td>
<td>Finite Mathematics (or Approved Substitute)</td>
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<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
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<tr>
<td>MATH 151</td>
<td>Mathematics for Elementary Education 1</td>
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<td>Geometric Investigations</td>
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<td>Contemporary Issues in Meteorology - S</td>
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<td>Geology for Scientists and Engineers</td>
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<td>BIOL 240</td>
<td>Unity of Life - S</td>
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<td>BIOL 242</td>
<td>Diversity of Life</td>
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<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
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<td>BIOL 363</td>
<td>Principles of Ecology</td>
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<td>PHYS 107</td>
<td>Elementary Astronomy - S</td>
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<td>Elementary Astronomy Laboratory - SL</td>
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<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<td>CHEM 202</td>
<td>General Chemistry II - S</td>
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<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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<tr>
<td>CHEM 208</td>
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HIST 101 History of Civilizations I - D2, SBH 3
HIST 102 History of Civilizations II - D2, SBH 3
HIST 211 American History I - D1, SBH 3
HIST 212 American History II - D1, SBH 3
HIST Elective 500 level 3
POLS 201 Introduction to American Government and Politics - SB 3
POLS Elective 300 level or above 3
GEOG 200 Human Geography in a Changing World - D2, SB 3
GEOG Elective 300 level or above 3
ECON 201 Principles of Microeconomics - SB 3
or ECON 202 Principles of Macroeconomics - SB 3
Electives 5
Minimum Total Hours 80

Track in Mathematics (Grades 8-12) (MISEBS SMA)

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<tr>
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Student Teaching Requirement

Competency Area Courses

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<td>MATH 301</td>
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<td>MATH 311</td>
<td>Introduction to Higher Math</td>
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<tr>
<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
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<tr>
<td>MATH 387</td>
<td>Discrete Mathematics</td>
<td>3</td>
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<tr>
<td>MATH 521</td>
<td>Modern Algebra I - CUE</td>
<td>3</td>
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<tr>
<td>MATH 561</td>
<td>Probability</td>
<td>3</td>
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<tr>
<td>MATH 550</td>
<td>Advanced Euclidean Geometry</td>
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<td>or MATH 551</td>
<td>Geometry</td>
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Supporting Courses

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<td>MATH 562</td>
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<td>MATH 590</td>
<td>History of Mathematics - WR</td>
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Supporting Courses (see list below) 7

Electives 15

Minimum Total Hours 75

Track in Social Studies and English (Grades 5-9) (MISEBS SEN)

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<td>EDTP 407</td>
<td>Middle School Language Arts Methods</td>
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<td>Middle School Social Studies Methods</td>
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Student Teaching Requirement

Competency Area Courses

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<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH 5</td>
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<tr>
<td>HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH</td>
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<td>HIST 212</td>
<td>American History II - D1, SBH</td>
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<tr>
<td>HIST Elective 500 level</td>
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<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB 6</td>
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POLS Elective 300 level or above 3

Supporting Courses

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<th>Title</th>
<th>Hours</th>
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<td>MATH 206</td>
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<td>MATH 301</td>
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<td>MATH 311</td>
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<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
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<tr>
<td>MATH 387</td>
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<tr>
<td>MATH 521</td>
<td>Modern Algebra I - CUE</td>
<td>3</td>
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<tr>
<td>MATH 561</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 550</td>
<td>Advanced Euclidean Geometry</td>
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<tr>
<td>or MATH 551</td>
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Supporting Courses (see list below) 7

Electives 15

Minimum Total Hours 80

Track in Physics (Grades 8-12) (MISEBS PHY)

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<td>EDTP 301</td>
<td>General Methods</td>
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<td>EDTP 424</td>
<td>High School Science Methods</td>
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<td>EDTP 419</td>
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Student Teaching Requirement

Competency Area Courses

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<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL 1</td>
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<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
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Select one of the following Minority Literature courses:

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<tbody>
<tr>
<td>ENGL 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
<td>3</td>
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<tr>
<td>ENGL 369</td>
<td>Minority Traditions in American Literature - AH, D1</td>
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<tr>
<td>ENGL 423</td>
<td>African-American Literature from 1845 to the Present - WR</td>
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Select one of the following Linguistics courses:

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<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 518</td>
<td>Foundations of Language</td>
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</table>
ENGL 522 Structure of Modern English
EDTP 522 Methods of Teaching Grammar, K-12

Electives 1

Minimum Total Hours 73

## Track in Social Studies — Leading to Certification in Grades 5-9, and Learning and Behavior Disorders — Leading to Certification in Grades P-12
(MISEBS SBD)

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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDTP 341</td>
<td>Teaching Middle School</td>
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</tr>
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<td>EDTP 410</td>
<td>Middle School Social Studies Methods</td>
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**Student Teaching Requirement**

EDTP 417 Student Teaching: Middle School 6
EDSP 470 Student Teaching, LBD 6

**Competency Area Courses**

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<tbody>
<tr>
<td>EDTP 301</td>
<td>General Methods</td>
<td>3</td>
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<td>EDTP 409</td>
<td>World Language Methods, P-12</td>
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**Student Teaching Requirement**

EDTP 412 Student Teaching: P-12 9

**Competency Area Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 200</td>
<td>Human Geography in a Changing World - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH</td>
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<tr>
<td>HIST 212</td>
<td>American History II - D1, SBH</td>
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</table>

Select one of the following Modern World History courses:

HIST 308 Europe from 1500 to the French Revolution 3
HIST 309 Europe from 1800 to the Present 3
HIST 332 Latin America, 1820 to Present 3
HIST 357 Middle Eastern History, 1453 to the Present - WR 3

Select one of the following Post Reconstruction courses:

HIST 519 Gilded Age and Progressive Era United States, 1877-1929 - WR 3
HIST 524 United States Civil War and Reconstruction - CUE, WR 3
HIST 529 Recent American History, 1945 to Present - CUE, WR 3
POLS 201 Introduction to American Government and Politics - SB 3

**Supporting Courses**

Supporting Courses 3
Electives 13

Minimum Total Hours 76

## Track in Spanish (Grades P-12)
(MISEBS SPA)

<table>
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<tr>
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<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
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<tr>
<td>GEOG 200</td>
<td>Human Geography in a Changing World - D2, SB</td>
<td>3</td>
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<tr>
<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
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<td>HIST 102</td>
<td>History of Civilizations II - D2, SBH</td>
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<td>HIST 211</td>
<td>American History I - D1, SBH</td>
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<td>HIST 212</td>
<td>American History II - D1, SBH</td>
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Select one of the following Modern World History courses:

HIST 308 Europe from 1500 to the French Revolution 3
HIST 309 Europe from 1800 to the Present 3
HIST 332 Latin America, 1820 to Present 3
HIST 357 Middle Eastern History, 1453 to the Present - WR 3

Select one of the following Post Reconstruction courses:

HIST 519 Gilded Age and Progressive Era United States, 1877-1929 - WR 3
HIST 524 United States Civil War and Reconstruction - CUE, WR 3
HIST 529 Recent American History, 1945 to Present - CUE, WR 3
POLS 201 Introduction to American Government and Politics - SB 3

**Supporting Courses**

Supporting Courses 3
Electives 13

Minimum Total Hours 76

## Track in Social Studies (Grades 8-12)
(MISEBS SST)

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<th>Hours</th>
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<tr>
<td>EDTP 301</td>
<td>General Methods</td>
<td>3</td>
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<td>EDTP 409</td>
<td>World Language Methods, P-12</td>
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**Student Teaching Requirement**

EDTP 412 Student Teaching: P-12 9

**Competency Area Courses**

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<tr>
<td>EDTP 301</td>
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**Student Teaching Requirement**

EDTP 419 Student Teaching: High School 9

**Competency Area Courses**

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<td>Principles of Macroeconomics - SB</td>
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<td>GEOG 200</td>
<td>Human Geography in a Changing World - D2, SB</td>
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<td>HIST 101</td>
<td>History of Civilizations I - D2, SBH</td>
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<td>HIST 211</td>
<td>American History I - D1, SBH</td>
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Select one of the following Modern World History courses:

HIST 308 Europe from 1500 to the French Revolution 3
HIST 309 Europe from 1800 to the Present 3
HIST 332 Latin America, 1820 to Present 3
HIST 357 Middle Eastern History, 1453 to the Present - WR 3

Select one of the following Post Reconstruction courses:

HIST 519 Gilded Age and Progressive Era United States, 1877-1929 - WR 3
HIST 524 United States Civil War and Reconstruction - CUE, WR 3
HIST 529 Recent American History, 1945 to Present - CUE, WR 3
POLS 201 Introduction to American Government and Politics - SB 3

**Supporting Courses**

Supporting Courses 3
Electives 13

Minimum Total Hours 76
Flight Plan

Track in Biology (Grades 8-12)

Year 1

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
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<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td>BIOL 242</td>
<td>Diversity of Life</td>
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<td>Principles of Biology Laboratory - SL</td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
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<td></td>
<td>or Calculus I - QR</td>
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Year 2

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<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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<td>CHEM 208</td>
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<td>EDTP 107</td>
<td>Human Development and Learning</td>
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<td>GEOS 200</td>
<td>The Global Environment - S</td>
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<td>General Elective</td>
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<td>CHEM 202</td>
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Electives 10

Minimum Total Hours 70

1. Completes 4 hrs. of Gen Ed S and SL requirements
2. Completes 3 hrs. of Gen Ed S requirement
3. Choose from Biology, Geosciences, Mathematics, Physics, or Chemistry as approved by advisor.
4. Completes 3 hrs. of Gen Ed MATH requirement
5. Completes 3 hrs. of Gen Ed SB – History requirement
6. Completes 3 hrs. of Gen Ed SB requirement
7. Courses listed plus a minimum of nine additional hours from Biology (BIOL 240/BIOL 242/BIOL 244), Mathematics, or Physics (PHYS 298/PHYS 295 and PHYS 299/PHYS 296) as approved by advisor.
8. At least nine credit hours must be earned at the 300 level or above.
9. Courses must be approved by advisor.
10. MATH 180 may be substituted.

Track in Chemistry (Grades 8-12)

Year 1

<table>
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<tr>
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<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td></td>
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<td><strong>Hours</strong></td>
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### Track in French (Grades P-12)

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<td>MATH 205</td>
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<td>EDSP 240</td>
<td>Introduction to Exceptional Children</td>
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<td>Intermediate College Writing - WC</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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1 Must have one D1 and one D2 course in order to satisfy General Education requirements.

---

### University of Louisville
### Track in Mathematics and Science (Grades 5-9)

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<td>GEOS 200</td>
<td>The Global Environment - S</td>
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<td>MATH 151</td>
<td>Mathematics for Elementary Education 1</td>
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**Hours**: 16

**Year 1**

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<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
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**Year 3**

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**Hours**: 17

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<td>Middle School Mathematics Methods</td>
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<td>Middle School Science Methods</td>
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**Hours**: 16

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<td>Assessment and Research</td>
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<td>Public Schools in America: Understanding our Past to Envision our Future</td>
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<td>Geology for Scientists and Engineers</td>
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**Hours**: 16

**Minimum Total Hours**: 125
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<td>MATH 521</td>
<td>Modern Algebra I - CUE</td>
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<td>MATH 550</td>
<td>Advanced Euclidean Geometry or MATH 551 or Geometry</td>
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**Minimum Total Hours**: 125

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### Track in Mathematics (Grades 8-12)

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<td>ENGL 101: Introduction to College Writing - WC</td>
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**Spring**: 3

**Year 1**: 16

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**Track in Physics (Grades 8-12)**

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<td>ENGL 101: Introduction to College Writing - WC</td>
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**Spring**: 3

**Year 2**: 15

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**Track in Mathematics (Grades 8-12)**

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<td>MATH 206: Calculus II</td>
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<td>MATH 311: Introduction to Higher Math</td>
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<td>PHYS 298: Introductory Mechanics, Heat and Sound - S</td>
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<td>PHYS 295: Introductory Laboratories I - SL</td>
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**Spring**: 4

**Year 3**: 16

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**Track in Physics (Grades 8-12)**

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<td>MATH 206: Calculus II</td>
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<td>PHYS 299: Introductory Electricity, Magnetism and Light</td>
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<td>PHYS 296: Introductory Laboratories II - SL</td>
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**Spring**: 3

**Year 4**: 21
Track in Social Studies and English (Grades 5-9)

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<td>EDTP 201</td>
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<td>ENGL 101</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<td>General Elective: Cardinal Core Quantitative Reasoning - QR</td>
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<td>History of Civilizations I - D2, SBH</td>
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Track in Social Studies – Leading to Certification in Grades 5-9, and Learning and Behavior Disorders - Leading to Certification in Grades P-12

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### Track in Social Studies (Grades 8-12)

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<td>Methods for Students with Learning and Behavior Disorders</td>
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<td>Assessment Procedures for Students with Learning &amp; Behavior Disorders</td>
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<td>EDTP 410</td>
<td>Middle School Social Studies Methods</td>
<td>3</td>
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<tr>
<td></td>
<td>Geography Elective (300 level)</td>
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<tr>
<td><strong>Year 4</strong></td>
<td>EDSP 470</td>
<td>Student Teaching, LBD</td>
<td>6</td>
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<tr>
<td></td>
<td>EDTP 471</td>
<td>Student Teaching: Middle School</td>
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<td></td>
<td>EDTP 477</td>
<td>Capstone Student Teaching Seminar - CUE</td>
<td>3</td>
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<tr>
<td><strong>Spring</strong></td>
<td>EDSP 510</td>
<td>Legal Issues in Special Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EDTP 355</td>
<td>Assessment and Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EDTP 506</td>
<td>Public Schools in America: Understanding our Past to Envision our Future</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History Elective (500 level)</td>
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<tr>
<td></td>
<td>Political Science Elective (300 level)</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>125</td>
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**Minimum Total Hours:** 125
### Track in Spanish (Grades P-12)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Year 1</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>EDTP 101</td>
<td>Academic Orientation</td>
<td>Fall</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SPAN 201</td>
<td>Intermediate Spanish I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
<td></td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
<td></td>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>Spring</td>
<td>3</td>
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<tr>
<td>SPAN 202</td>
<td>Intermediate Spanish II</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
<td></td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td></td>
<td>General Elective</td>
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<tr>
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<tr>
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<th>Year 2</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDTP 107</td>
<td>Human Development and Learning</td>
<td>Fall</td>
<td>3</td>
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<tr>
<td>SPAN 301</td>
<td>Spanish Pronunciation</td>
<td></td>
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<tr>
<td>SPAN 305</td>
<td>Spanish Grammar in Context</td>
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</tr>
<tr>
<td>SPAN 310</td>
<td>Readings and Writing in Spanish I</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
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<tr>
<td>SPAN 311</td>
<td>Cultural Readings and Writing in Spanish II</td>
<td>Spring</td>
<td>3</td>
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<tr>
<td>SPAN 321</td>
<td>Communication and Conversation in Spanish</td>
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<td>3</td>
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<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities Globa Diversity - AHD2</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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</tr>
<tr>
<td></td>
<td>General Elective</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
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<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Year 3</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDTP 301</td>
<td>General Methods</td>
<td>Fall</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 328</td>
<td>Building Learning Communities</td>
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<td>EDTP 330</td>
<td>Building Learning Communities Field Experience</td>
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<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td></td>
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</tr>
<tr>
<td>SPAN 401</td>
<td>Foundations of Spanish Civilization</td>
<td></td>
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</tr>
<tr>
<td>or SPAN 402</td>
<td>or Cultural and Literary Perspectives on Modern Spain</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Support Course</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
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<tr>
<td>EDS 345</td>
<td>Special Populations in Schools</td>
<td>Spring</td>
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<td>EDS 346</td>
<td>Special Populations in Schools Field Experience</td>
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<td>EDTP 429</td>
<td>World Language Methods, P-12</td>
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<td>SPAN 422</td>
<td>Spanish Phonetics</td>
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<td>SPAN 524</td>
<td>Introduction to Hispanic Linguistics</td>
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<td>Support Course</td>
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<td></td>
<td><strong>Hours</strong></td>
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</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

### Music & New Media (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts in Music with Emphasis in Music & New Media (MUSIBA_MNM)**

Unit: Music (http://louisville.edu/music)

### Program Information

The Music & New Media program provides training in digital media concepts and skills necessary for the creation and production of sound
for public performance, music albums, digital video, internet applications, interactive media, cinema, commercials, video games, theater, dance, and software development.

Students have the flexibility in the curriculum to focus on their own goals and interests after completing the minimum requirements of the program in audio engineering, acoustics, sound design, electronic music, sound analysis, video generation, sound art, and creative new media projects. Students design and realize a Capstone project with direct faculty oversight. These projects reflect the student's own focus, interests, and goals.

The program is designed to prepare students for careers in music and new media arts that emphasize presentation, performance, and research with technology, including audio and video production for multimedia communications, music recording, audio and video post-production, video art, sound engineering, sound design for film and gaming, sound art, sound and image research, public performance, and computer music composition.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">link provided above</a>)</td>
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<td></td>
<td>College/School Requirements</td>
<td>38-40</td>
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<tr>
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<td>Program/Major Requirements</td>
<td>49-51</td>
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<td></td>
<td>Minimum Total Hours</td>
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</table>

Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

### General Education Requirements

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- **PAS 214** African-American Music - AH, D1
- **ANTH 205** Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program ([link provided above](http://catalog.louisville.edu/undergraduate/general-education-requirements)). The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

### College/School Requirements

#### School of Music Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
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<tr>
<td>MUS 142</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 170</td>
<td>Introduction to Acoustics</td>
<td>2</td>
</tr>
<tr>
<td>MUS 171</td>
<td>Audio Engineering</td>
<td>2</td>
</tr>
<tr>
<td>MUS 270</td>
<td>Creative Audio Recording and Production Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUS 271</td>
<td>Sound Design</td>
<td>2</td>
</tr>
<tr>
<td>MUS 376</td>
<td>Sound Art</td>
<td>2</td>
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<tr>
<td>MUS 477</td>
<td>Special Topics in Music &amp; New Media</td>
<td>2</td>
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<tr>
<td>MUS Electives</td>
<td>2-4</td>
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<tr>
<td>General or Music Electives</td>
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<td></td>
</tr>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project (CUE)</td>
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<tr>
<td>General Electives</td>
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</table>

Minimum Total Hours: 49-51

### Program/Major Requirements

#### Music & New Media Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>MUS 170</td>
<td>Introduction to Acoustics</td>
<td>2</td>
</tr>
<tr>
<td>MUS 171</td>
<td>Audio Engineering</td>
<td>2</td>
</tr>
<tr>
<td>MUS 270</td>
<td>Creative Audio Recording and Production Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUS 271</td>
<td>Sound Design</td>
<td>2</td>
</tr>
<tr>
<td>MUS 376</td>
<td>Sound Art</td>
<td>2</td>
</tr>
<tr>
<td>MUS 477</td>
<td>Special Topics in Music &amp; New Media</td>
<td>2</td>
</tr>
<tr>
<td>MUS Electives</td>
<td>2-4</td>
<td></td>
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<tr>
<td>General or Music Electives</td>
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<td></td>
</tr>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project (CUE)</td>
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<tr>
<td>General Electives</td>
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</table>

Minimum Total Hours: 49-51

#### Culminating Undergraduate Experience (Graduation requirement)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project</td>
<td></td>
</tr>
</tbody>
</table>

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 Analysis I for BA General, MUS 349 Jazz Analysis for BA Jazz Studies, MUS 350 Analysis of Electronic Media for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance,
with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional Gen Ed courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

1. Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB.
2. MUH courses may not be taken to fulfill any General Education requirement.
3. Students who do not pass the computer-based Fundamentals Test prior to beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141 Theory I. Students who do not pass Theory I (MUS 141), and students who enter the School of Music in January and do not place into MUS 142 Theory II, must enroll in MUS 92 Musicianship I for the spring semester. Credits for MUS 92 do not count toward the degree.
4. Strings take section 01, others solely dependent on the ensemble audition.
5. Contingent on interest and audition.
6. The Piano Proficiency Examination is required for applied piano and organ majors.
7. If the applied area is piano or organ, Piano Class is replaced with 2 hours of music electives. The Piano Proficiency Examination may be taken in lieu of two semesters of Piano Class.
8. Students must pass the complete Piano Proficiency Examination before receiving credit for the final semester of the piano requirement. Students must be enrolled continuously in Piano Class until their piano requirement has been completed. Those who pass the Piano Proficiency Exam before the end of the second semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits.
9. 2 hours of music electives if Theory IV is chosen; 4 hours of music electives if Analysis of Electronic Media is chosen.
10. Non-music electives which include 18 hours in one area of concentration. At least 9 hours in the area of concentration, and a total of 12 of the 32 hours, must be at the 300-level or above. The student may choose to pursue a second major or take a minor in a non-music area.

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
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</tr>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
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<tr>
<td>MUS 125</td>
<td>Arts Instrument</td>
<td>1</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Piano Class</td>
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</tr>
<tr>
<td>MUS 170</td>
<td>Introduction to Musical Acoustics</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Spring** | | |
| MUS 126 | Arts Instrument | 1 |
| MUS 109 | Major Ensembles | 1 |
| MUS 142 | Theory II | 4 |
| MUS 97 | Recital Attendance | 0 |
| MUS 132 | Piano Class (or Music Elective) | 1 |
| MUS 197 | Piano Proficiency | 0 |
| MUS 171 | Audio Engineering | 2 |
| ENGL 102 | Intermediate College Writing - WC | 3 |
| General Education: Cardinal Core Quantitative Reasoning – QR | 2 |

| **Year 2** | | |
| **Fall** | | |
| MUS 225 | Arts Instrument | 1 |
| MUS 109 | Major Ensembles | 1 |
| MUS 241 | Theory III | 4 |
| MUS 97 | Recital Attendance | 0 |
| MUS 271 | Sound Design | 2 |
| Non-Music Elective in any other discipline | 3 |
| Non-Music Elective in any other discipline | 1 |
| General Education: Cardinal Core Natural Science – S | 3 |
| General Education: Cardinal Core Natural Science Lab – SL | 1 |

| **Year 3** | | |
| **Fall** | | |
| MUS 109 | Major Ensembles | 1 |
| MUS 350 | Analysis of Electronic Media (not required if student completed MUS 242) | 0-2 |
| MUS 97 | Recital Attendance | 0 |
| MUS 362 | Music Literature II (Classical & Early Romantic Music) | 3 |
| Non-Music Elective in chosen concentration | 3 |
| Non-Music Elective in any other discipline | 3 |
| General Education: Cardinal Core Oral Communication – OC | 3 |

| **Spring** | | |
| MUS 109 | Major Ensembles | 1 |
| MUS 97 | Recital Attendance | 0 |
| MUS 363 | Music Literature III (1860-present) | 3 |
| MUS 376 | Sound Art | 2 |
| Non-Music Elective in chosen concentration (300 level or above) | 3 |
| Non-Music Elective in chosen concentration | 1 |
| Non-Music Elective in any other discipline | 3 |
| General Education: Cardinal Core Arts & Humanities – AH | 3 |

**Milestones after Year 1:** 31 total hours, 2.5 GPA

**Milestones after Year 2:** 62-64 total hours, 2.5 GPA

**Milestones after Year 3:** 93 total hours, 2.5 GPA
Year 4

Fall

MUS 109  Major Ensembles  1
MUS 477  Special Topics in Music & New Media  2
Non-Music Elective in chosen concentration (300 level or above)  3
Non-Music Elective in any other discipline (300 level or above)  3
Music Elective(s)  2
General Education: Cardinal Core Historical Perspective – SBH  3

Hours  14

Spring

MUS 109  Major Ensembles  1
Non-Music Elective in chosen concentration (300 level or above)  3
Non-Music Elective in any other discipline  3
General or Music Electives  3
ANTH 205  Music in World Cultures - D2, SB  3
MUS 496  BA Capstone Project  0
Milestones after Year 4: 120 total hours, 2.5 GPA  1

Hours  13

Minimum Total Hours  120

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

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1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
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Music Composition (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Music with Emphasis in Composition (MUSIBM COM)

Unit: Music (http://www.louisville.edu/music)

Program Information

The Bachelor of Music Composition (BM) degree at UofL is a four-year program of study designed to develop a high level of expertise in music composition and related skills. In addition, the program encourages and promotes the development of each student's individual compositional "voice" or personality.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<tr>
<td></td>
<td>College/School Requirements</td>
<td>47</td>
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<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>122</td>
</tr>
</tbody>
</table>

While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

PAS 214  African-American Music - AH, D1
ANTH 205  Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

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<td>MUS 141</td>
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<td>MUS 242</td>
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<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
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<td>Major Ensembles (eight 1-hour courses) ⁴</td>
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<tr>
<td>MUS 131</td>
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MUS 132 Piano Class \(^5\) 1
MUS 231 Piano Class II \(^5,6\) 1
MUS 347 Analysis I 2
MUS 111 Principal Applied Study 2
MUS 112 Principal Applied Study 2
MUS 211 Principal Applied Study 2
MUS 212 Principal Applied Study 2
MUS 100 Introduction to Music Study 1
MUS 297 Piano Proficiency 0

Minimum Total Hours 47

Program/Major Requirements

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<td>MUS 443</td>
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<td>MUS 444</td>
<td>Composition and Orchestration - CUE (^7)</td>
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<td>MUS 246</td>
<td>Contemporary Composition Techniques I</td>
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<td>MUS 247</td>
<td>Contemporary Composition Techniques II</td>
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<td>Analysis II</td>
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<td>MUS 270</td>
<td>Creative Audio Recording and Production Techniques</td>
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<td>MUS 547</td>
<td>Chromatic Harmony and Analysis</td>
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<td>MUS 548</td>
<td>Post-Tonal Theory and Analysis</td>
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<td>Renaissance Counterpoint</td>
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<td>MUS 550</td>
<td>Baroque Counterpoint</td>
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<tr>
<td>MUS 567</td>
<td>Introduction to Electronic and Computer Music</td>
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<tr>
<td>MUS 497</td>
<td>Senior Recital - CUE (CUE) (^8)</td>
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Supporting Courses

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<td>MUS 325</td>
<td>Arts Instrument (Applied Lessons)</td>
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<td>MUS 326</td>
<td>Arts Instrument (Applied Lessons)</td>
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<td>MUS 426</td>
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<td>Studies in Improvisation</td>
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<tr>
<td>Electives</td>
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</table>

Minimum Total Hours 44

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 243 Theory IV or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361 Music Literature I; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional Gen Ed courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

Culminating Undergraduate Experience (Graduation requirement)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUS 497</td>
<td>Senior Recital - CUE</td>
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1. Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB.
2. MUH courses may not be taken to fulfill any General Education requirement.
3. Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141 Theory I. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142 Theory II, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.
4. Strings take section 01, others solely dependent on the ensemble audition.
5. If applied principal is piano, Piano Class is replaced with 3 hours of electives. For students with a piano background, three semesters of MUS 121-MUS 221 (Secondary Piano) may be substituted.
6. Students will take the Piano Proficiency Examination at the end of MUS 231. Any student not completing the Piano Proficiency Examination will be required to take MUS 232 until the proficiency exam requirement is complete. Students must be enrolled continuously in Piano Class until their requirement has been completed. Those who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits. Entering students who have a background in piano may register for Piano Proficiency MUS 297 for one semester with approval of the Keyboard Area.
7. Undergraduate composition majors enrolled in MUS 243–MUS 444 are required to present public performances of their original works to average at least eight minutes of music per semester. The senior recital does not count toward these averages, but does fulfill the requirement for the semester in which it is given.
8. Students must present a recital of original works.

Flight Plan

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<tr>
<th>Course</th>
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<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report” to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
**Music Education (BM)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Music in Music Education**

**Unit:** Music [Link](http://www.louisville.edu/music)

The Bachelor of Music in Music Education program is designed to serve students seeking to develop the skills, experiences, and information to qualify graduates for public school music teacher "New Teacher" certification in the Commonwealth of Kentucky (P-12).

The Bachelor of Music in Music Education, Pre-Certification, program is designed for students intending to complete the degree in anticipation of enrollment in the Master of Arts in Teaching program (MAT), when additional professional education, music education, research methods, and clinical education course work are required. More information on this program can be found on the BM in Music Education, Pre-Certification, catalog page (p. 292).

**Degree Summaries**

### Music Education: Brass, Percussion, or Wind Emphasis

<table>
<thead>
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### Music Education: Keyboard Emphasis

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### Music Education: Keyboard Emphasis w/Track in Jazz Studies

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### Music Education: Strings Emphasis

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### Music Education: Strings Emphasis w/Track in Jazz Studies

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<td>College/School Requirements</td>
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### Music Education: Vocal Emphasis

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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>134</td>
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</table>

1. While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.
Departmental Admission Requirements

Students in this unit are admitted directly into their degree program. Students considering the tracks in Jazz Studies must audition and be admissible to both Music Education and Jazz Studies.

General Education Requirements

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</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- PAS 214 African-American Music - AH, D1
- ANTH 205 Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>MUS 141</td>
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<td>MUS 142</td>
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<td>MUS 241</td>
<td>Theory III</td>
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<td>MUS 242</td>
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<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
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<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
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<td>MUS 109</td>
<td>Major Ensembles (Seven 1-hour courses)</td>
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<td>MUS 97</td>
<td>Recital Attendance (six semesters of “S”)</td>
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<td></td>
<td>Piano Class/ Voice Class</td>
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FOR STUDENTS WITH INSTRUMENTAL EMPHASIS

- MUS 131 Piano Class
- & MUS 132 Piano Class
- & MUS 231 Piano Class III
- & MUS 297 Piano Proficiency

FOR STUDENTS WITH VOICE EMPHASIS

- MUS 131 Piano Class
- & MUS 132 Piano Class
- & MUS 231 Piano Class III
- & MUS 297 Piano Proficiency

FOR STUDENTS WITH INSTRUMENTAL EMPHASIS WITH TRACK IN JAZZ STUDIES

- MUS 131 Piano Class
- & MUS 132 Piano Class
- & MUS 130 Jazz Piano Class
- & MUS 197 Piano Proficiency
- & MUS 198 Jazz Piano Proficiency

- OR FOR STUDENTS WITH KEYBOARD EMPHASIS OR KEYBOARD EMPHASIS WITH TRACK IN JAZZ STUDIES (Applied Voice)

<table>
<thead>
<tr>
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<td>&amp; MUS 233</td>
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<td>&amp; MUS 297</td>
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Applied Lessons (four 2-hour courses) 8

- MUS 111 Principal Applied Study
- & MUS 112 Principal Applied Study
- MUS 211 Principal Applied Study
- & MUS 212 Principal Applied Study
- MUS 347 Analysis I (Jazz Track students take MUS 349) 2

Minimum Total Hours 46

1. Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB.
2. MUH courses may not be taken to fulfill any General Education requirement.
3. Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 4 credit concurrently with MUS 141 Theory I. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.
4. Seven semesters of Principal Ensemble. Strings take section 01, others solely dependent on the ensemble audition. Music Education students who are woodwind, brass, or percussion principals are required to fulfill two years of ensemble performance in the Marching Band. Entering students will be expected to fulfill this requirement during the freshman and sophomore years. Transfer students will be required to fulfill a minimum of one year. A second year may be required based upon evaluation of the transcript. Woodwind, brass, or percussion principals are also recommended to complete one semester of a Principal Jazz Ensemble. Jazz Track: take 6 semesters of “Classical” ensemble and 1 semester of a Principal Jazz Ensemble.
5. Students must be enrolled continuously in Piano Class until their requirement has been completed. Those who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with Secondary Piano if faculty load permits. Entering students who have a background in piano may register for MUS 297 Piano Proficiency for one semester with approval of the Keyboard Area. Students will take the Piano Proficiency Examination at the end of MUS 231. Any student not completing the Piano Proficiency Examination will be required to take MUS 232 until the Piano Proficiency Examination requirement is complete.

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV; MUS 361 Music Literature I; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good
to take the following upper-division music education courses:

Students must be admitted to Teacher Education before being permitted to student teach. These field experiences are non-paid experiences. This regulation will begin based on EPSB prior to being permitted to student teach. These field experiences are outlined by the Education Professional Standards Board.

Requirements for application to Teacher Education are the following:

- Minimum 45 credit hours (completed or in progress at the time of application) with minimum 2.75 cumulative college grade point average;
- Grade of C+ or higher in MUS 116;
- Successful completion of an additional two credit hours of Music Education courses;
- Passing PPST PRAXIS I scores as follows: Math (150), Writing (162), Reading (156);
- C or better in ENGL 102;
- C or better in Oral Communication course (such as COMM 111 or COMM 115);
- Professional Statement (as directed in application);
- Three Letters of Recommendation (as directed in application);
- Successful Interview;
- Agreement to Professional Code of Ethics, Statement of Understanding of Admission Guidelines, and CEHD Acceptable Use of Technology forms (as directed in application).

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification" (above) for requirements and a list of courses.

### Program/Major Requirements

#### Brass Emphasis

Students must pass the Pre-Professional Standards Test (PPST) prior to student teaching and Praxis I and II exams as required by EPSB and obtain a “B” average in EDP 420 and ECPY 507 (or approved Education course substitution).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUED 533</td>
<td>Human Interaction/Professional Growth</td>
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</tr>
<tr>
<td>MUED 556</td>
<td>Special Methods in Secondary Teaching</td>
<td></td>
</tr>
</tbody>
</table>

### Supporting Courses

- **Applied Lesson (three 2-hour courses)**
  - MUS 311 Principal Applied Study
  - & MUS 312 Principal Applied Study
  - & MUS 411 Principal Applied Study
### Brass Emphasis with a Track in Jazz Studies

<table>
<thead>
<tr>
<th>Coursework listed above, minus MUS 118</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 105 Jazz Applied</td>
<td>6</td>
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<tr>
<td>&amp; MUS 106 Jazz Applied</td>
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<tr>
<td>&amp; MUS 205 Jazz Applied</td>
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</tr>
<tr>
<td>MUS 109 Major Ensembles (Jazz Ensemble; two 1-hour courses)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 351 Studies in Jazz (MUS 351-01 Jazz Style and Analysis)</td>
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<tr>
<td>MUS 351 Studies in Jazz (MUS 351-02 Jazz Theory)</td>
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<tr>
<td>MUS 435 Jazz Arranging I</td>
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<tr>
<td>One of the following sequences: **</td>
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<tr>
<td>MUS 138 Jazz Improvisation</td>
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</tr>
<tr>
<td>&amp; MUS 340 Jazz Improvisation II</td>
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</tr>
<tr>
<td>or -</td>
<td></td>
</tr>
<tr>
<td>MUS 340 Jazz Improvisation II</td>
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</tr>
<tr>
<td>&amp; MUS 440 Jazz Improvisation III</td>
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</table>

Minimum Total Hours 76

** Combination of courses determined by audition.

### Keyboard Emphasis

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to *Admission to Teacher Certification* (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Plan Courses: Major Area</strong></td>
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<tr>
<td></td>
<td><strong>Instrumental Methods, Vocal Emphasis</strong></td>
<td>4</td>
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<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
<td></td>
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<tr>
<td>MUS 252</td>
<td>Introduction to Brass</td>
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<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
<td></td>
</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
<td></td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
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<tr>
<td>MUS 428</td>
<td>Choral Techniques</td>
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<tr>
<td>MUS 359</td>
<td>Conducting I &amp; MUS 360 Conducting II</td>
<td>4</td>
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</table>

Minimum Total Hours 57

### Keyboard Emphasis with a Track in Jazz Studies

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>MUS 105</td>
<td>Jazz Applied</td>
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<tr>
<td>&amp; MUS 106</td>
<td>Jazz Applied</td>
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<tr>
<td>&amp; MUS 205</td>
<td>Jazz Applied</td>
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</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (Jazz Ensemble; two 1-hour courses)</td>
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</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Jazz Combo; two additional half-hour courses)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style and Analysis)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-02 Jazz Theory)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 435</td>
<td>Jazz Arranging I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 345</td>
<td>Orchestral Scoring</td>
<td></td>
</tr>
<tr>
<td>MUS 346</td>
<td>Band/Choral Scoring</td>
<td></td>
</tr>
<tr>
<td>MUS 435</td>
<td>Jazz Arranging I (Jazz Track students only)</td>
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</tr>
<tr>
<td>MUS 371</td>
<td>Piano Pedagogy I (Jazz Track students only)</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Theory MUS 351-01)</td>
<td>2</td>
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</table>

Minimum Total Hours 57
MUS 338 Jazz Methods 2
One of the following sequences:**
  MUS 138 Jazz Improvisation
  & MUS 340 Jazz Improvisation II
  - or -
  MUS 340 Jazz Improvisation II
  & MUS 440 Jazz Improvisation III
Minimum Total Hours 75
** Combination of courses determined by audition.

** Percussion Emphasis**
Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification" (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 235</td>
<td>Woodwind Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 253</td>
<td>Brass Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
<td>6</td>
</tr>
<tr>
<td>MUS 342</td>
<td>Band Pedagogy and Educational Wind Band Literature</td>
<td>6</td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td>6</td>
</tr>
<tr>
<td>MUS 337</td>
<td>Marching Band Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 359 &amp; MUS 360</td>
<td>Conducting I &amp;II</td>
<td>6</td>
</tr>
</tbody>
</table>

**Practical Applications in Music Education (four half-hour courses)** 1
- MUS 201 Practical Applications in Music Education
- MUS 202 Practical Applications in Music Education
- MUS 301 Practical Applications in Music Education
- MUS 302 Practical Applications in Music Education

MUS 116 Introduction to Music Education 6
MUS 118 Introduction to Jazz Improvisation (not required for Jazz Track students, see Jazz Studies courselist below) 6

MUS 338 Jazz Methods 6
ECPY 507 Learning Theory and Human Growth and Development 6
or EDTP 107 Human Development and Learning 6
EDTP 201 The Teaching Profession - SB 6
or EDTP 502 Exploring Teaching in the Sociopolitical Contexts of P-12 Schools 6
EDTP 420 Reading and Writing Across the Curriculum 6
MUED 533 Human Interaction/Professional Growth 6
MUED 556 Special Methods in Secondary Teaching 6
MUED 520 Student Teaching Elementary School (CUE) 6
MUED 534 Student Teaching Secondary (CUE) 6

Minimum Total Hours 58
* Non-principal instrument

** Percussion Emphasis with a Track in Jazz Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 105 &amp; MUS 106 &amp; MUS 205</td>
<td>Jazz Applied</td>
<td>6</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (Principal Jazz Ensemble, two 1-hour courses)</td>
<td>6</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Jazz Combo; two additional half-hour courses)</td>
<td>6</td>
</tr>
<tr>
<td>MUS 351 &amp; MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style and Analysis)</td>
<td>6</td>
</tr>
<tr>
<td>MUS 435</td>
<td>Jazz Arranging I</td>
<td>6</td>
</tr>
<tr>
<td>MUS 138 &amp; MUS 340</td>
<td>Jazz Improvisation &amp; Jazz Improvisation II</td>
<td>6</td>
</tr>
<tr>
<td>MUS 340 &amp; MUS 440</td>
<td>Jazz Improvisation II &amp; Jazz Improvisation III</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Total Hours 76
** Combination of courses determined by audition.

** Wind Emphasis**
Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification" (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 235</td>
<td>Woodwind Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 253</td>
<td>Brass Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 254</td>
<td>Advanced Brass Methods</td>
<td>6</td>
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</tbody>
</table>

Plan Courses: Major Area

Instrumental Methods, Wind Emphasis 6

MUED 533 Human Interaction/Professional Growth 6
MUED 556 Special Methods in Secondary Teaching 6
MUED 520 Student Teaching Elementary School (CUE) 6
MUED 534 Student Teaching Secondary (CUE) 6

Supporting Courses

Applied Lesson (three 2-hour courses) 6
- MUS 311 Principal Applied Study
- MUS 312 Principal Applied Study
- MUS 411 Principal Applied Study
- MUS 346 Band/Choral Scoring 6
- MUS 119 Minor Ensembles (four half-hour courses) 6
- Functional or Secondary Applied Lesson 6
- Three hours selected from the following: 6
  - MUS 227 Voice Class (1 credit)
  - Functional or Secondary Applied Lessons (1-2 credits)
  - MUS 577 Marching Band Drill Writing (2 credits)
  - MUED 405 Introduction to Orff Schulwerk: Music and Movement Education (1 credit)
  - MUED 505 Introduction to Orff Schulwerk: Music & Movement Education (2 credit)

Minimum Total Hours 75

** Combination of courses determined by audition.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
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</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
<td></td>
</tr>
<tr>
<td>MUS 342</td>
<td>Band Pedagogy and Educational Wind Band Literature</td>
<td></td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td>2</td>
</tr>
<tr>
<td>MUS 337</td>
<td>Marching Band Methods</td>
<td>1</td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; MUS 360</td>
<td>Conducting II</td>
<td></td>
</tr>
<tr>
<td><strong>Practical Applications in Music Education (four half-hour courses)</strong></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MUED 201</td>
<td>Practical Applications in Music Education</td>
<td></td>
</tr>
<tr>
<td>&amp; MUED 202</td>
<td>Practical Applications in Music Education</td>
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<tr>
<td>&amp; MUED 301</td>
<td>Practical Applications in Music Education</td>
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<tr>
<td>&amp; MUED 302</td>
<td>Practical Applications in Music Education</td>
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</tr>
<tr>
<td>MUS 116</td>
<td>Introduction to Music Education</td>
<td>1</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUS 338</td>
<td>Jazz Methods</td>
<td>2</td>
</tr>
<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
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<tr>
<td>or EDTP 107</td>
<td>Human Development and Learning</td>
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<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
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<tr>
<td>or EDTP 502</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
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<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
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<td>MUED 520</td>
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<td>MUED 534</td>
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**Supporting Courses**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Applied Lesson (three 2-hour courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
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<tr>
<td>&amp; MUS 312</td>
<td>Principal Applied Study</td>
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<tr>
<td>&amp; MUS 411</td>
<td>Principal Applied Study</td>
<td></td>
</tr>
<tr>
<td>MUS 346</td>
<td>Band/Choral Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (four half-hour courses)</td>
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</tr>
<tr>
<td>Functional or Secondary Applied Lesson*</td>
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<td></td>
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<tr>
<td>Three hours selected from the following:</td>
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<tr>
<td>MUS 227</td>
<td>Voice Class (1 credit)</td>
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<tr>
<td>Functional or Secondary Applied Lessons (1-2 credits) *</td>
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<tr>
<td>MUS 577</td>
<td>Marching Band Drill Writing (2 credits)</td>
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</tr>
<tr>
<td>MUED 405</td>
<td>Introduction to Orff Schulwerk: Music and Movement Education (1 credit)</td>
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<tr>
<td>MUED 505</td>
<td>Introduction to Orff Schulwerk: Music &amp; Movement Education (2 credit)</td>
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</table>

**Minimum Total Hours**

58

* Non-principal instrument

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**Wind Emphasis with a Track in Jazz Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Coursework listed above, minus MUS 118</td>
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</tr>
<tr>
<td>MUS 105</td>
<td>Jazz Applied</td>
<td>6</td>
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<td>&amp; MUS 106</td>
<td>Jazz Applied</td>
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<td>&amp; MUS 205</td>
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<td>MUS 109</td>
<td>Major Ensembles (Jazz Ensemble, two 1-hour courses)</td>
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<td>MUS 119</td>
<td>Minor Ensembles (two additional half-hour courses)</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style and Analysis)</td>
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<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-02 Jazz Theory)</td>
<td>2</td>
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<td>MUS 435</td>
<td>Jazz Arranging I</td>
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<tr>
<td>One of the following sequences: **</td>
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<tr>
<td>MUS 138</td>
<td>Jazz Improvisation</td>
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<tr>
<td>&amp; MUS 340</td>
<td>Jazz Improvisation II</td>
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<td>or - MUS 340</td>
<td>Jazz Improvisation II</td>
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</tr>
<tr>
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<td>Jazz Improvisation III</td>
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</table>

**Minimum Total Hours**

76

**Strings Emphasis**

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification" (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Plan Courses: Major Area</td>
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</tr>
<tr>
<td>Instrumental Methods, Strings Emphasis</td>
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</tr>
<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
<td></td>
</tr>
<tr>
<td>MUS 252</td>
<td>Introduction to Brass</td>
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<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
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<tr>
<td>MUS 335</td>
<td>String Methods I</td>
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<td>MUS 336</td>
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<tr>
<td>MUS 339</td>
<td>String Pedagogy and Educational String Literature</td>
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<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
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<td>Frameworks for Teaching Music in a Diverse Society</td>
<td>2</td>
</tr>
<tr>
<td>MUS 227</td>
<td>Voice Class (1 credit)</td>
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<tr>
<td>MUS 359</td>
<td>Conducting I</td>
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<tr>
<td>&amp; MUS 360</td>
<td>Conducting II</td>
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<tr>
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<tr>
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<td>Practical Applications in Music Education</td>
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</tr>
<tr>
<td>&amp; MUED 202</td>
<td>Practical Applications in Music Education</td>
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</tr>
<tr>
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<td>Practical Applications in Music Education</td>
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<tr>
<td>&amp; MUED 302</td>
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<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation (not required for Jazz Track students, see Jazz Studies courselist below)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 338</td>
<td>Jazz Methods</td>
<td>2</td>
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</table>
ECPY 507 Learning Theory and Human Growth and Development 3
or EDTP 107 Human Development and Learning
EDTP 201 The Teaching Profession - SB 3
or EDTP 502 Exploring Teaching in the Sociopolitical Contexts of P-12 Schools
EDTP 420 Reading and Writing Across the Curriculum 3
MUED 533 Human Interaction/Professional Growth 2
MUED 556 Special Methods in Secondary Teaching 2
MUED 520 Student Teaching Elementary School (CUE) 5
MUED 534 Student Teaching Secondary (CUE) 5

** Supporting Courses **

** Applied Lesson (three 2-hour courses) **

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 312</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 411</td>
<td>Principal Applied Study</td>
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</tr>
<tr>
<td>MUS 345</td>
<td>Orchestral Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 346</td>
<td>Band/Choral Scoring</td>
<td>2</td>
</tr>
<tr>
<td>or MUED 505</td>
<td>Introduction to Orff Schulwerk: Music &amp; Movement Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (two half-hour courses)</td>
<td>1</td>
</tr>
<tr>
<td>Functional of Secondary Applied Lessons **</td>
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<tr>
<td>MUED 102</td>
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<tr>
<td>MUED 401</td>
<td>Practical Applications in Music Education</td>
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</table>

** Minimum Total Hours ** 59

** Vocal Emphasis **

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification" (above) for requirements and a list of courses.

** Code ** | ** Title ** | ** Hours **
--- | --- | ---

** Instrumental Methods, Vocal Emphasis **

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Introduction to Brass</td>
<td>2</td>
</tr>
<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td>2</td>
</tr>
<tr>
<td>MUS 428</td>
<td>Choral Techniques</td>
<td>2</td>
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<tr>
<td>MUS 359</td>
<td>Conducting I</td>
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<tr>
<td>&amp; MUS 360</td>
<td>Conducting II</td>
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** Practical Applications in Music Education (four half-hour courses) **

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</thead>
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<tr>
<td>&amp; MUED 202</td>
<td>Practical Applications in Music Education</td>
<td>2</td>
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<tr>
<td>&amp; MUED 301</td>
<td>Practical Applications in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUED 302</td>
<td>Practical Applications in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 116</td>
<td>Introduction to Music Education</td>
<td>1</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
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</table>

** or EDTP 107 Human Development and Learning **

** EDTP 201 The Teaching Profession - SB **

** or EDTP 502 Exploring Teaching in the Sociopolitical Contexts of P-12 Schools **

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 312</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 411</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 345</td>
<td>Orchestral Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 346</td>
<td>Band/Choral Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUED 505</td>
<td>Introduction to Orff Schulwerk: Music &amp; Movement Education</td>
<td>2</td>
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</table>

** Strings Emphasis with a Track in Jazz Studies **

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<tr>
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<td>6</td>
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<tr>
<td>&amp; MUS 106</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 205</td>
<td>Jazz Applied</td>
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</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (Jazz Ensemble; two 1-hour courses)</td>
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</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Jazz Combo; two additional half-hour courses)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style and Analysis)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-02 Jazz Theory)</td>
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<tr>
<td>MUS 435</td>
<td>Jazz Arranging I</td>
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** One of the following sequences:**

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<tr>
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<tbody>
<tr>
<td>MUS 138</td>
<td>Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 340</td>
<td>Jazz Improvisation II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 340</td>
<td>Jazz Improvisation II</td>
<td>2</td>
</tr>
<tr>
<td>&amp; MUS 440</td>
<td>Jazz Improvisation III</td>
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** Minimum Total Hours ** 77

** ** Combination of courses determined by audition.
Culminating Undergraduate Experience - all tracks listed above

(Graduation requirement)

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<thead>
<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>MUED 520</td>
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<tr>
<td>MUED 534</td>
<td>Student Teaching Secondary</td>
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</table>

**Flight Plans**

**Vocal Emphasis**

<table>
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<tr>
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<th>Title</th>
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</thead>
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<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
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<td>MUS 111</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Piano Class (or MUS 133 Voice for piano principals)</td>
<td>1</td>
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<tr>
<td>MUS 123</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
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</tbody>
</table>

**Year 1**

**Fall**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>MUS 121</td>
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<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Piano Class (or MUS 134 Voice for piano principals)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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**Hours**

|        |                                                    | 16    |

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
<td>1</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Piano Class III (or MUS 233 Voice for piano principals)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 297</td>
<td>Piano Proficiency</td>
<td>0</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
<td>1</td>
</tr>
<tr>
<td>MUED 201</td>
<td>Practical Applications in Music Education</td>
<td>0.5</td>
</tr>
<tr>
<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
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**Hours**

|        |                                                    | 17.5  |

**Year 2**

**Fall**

<table>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 211</td>
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<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Piano Class III (or MUS 233 Voice for piano principals)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 297</td>
<td>Piano Proficiency</td>
<td>0</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
<td>1</td>
</tr>
<tr>
<td>MUED 201</td>
<td>Practical Applications in Music Education</td>
<td>0.5</td>
</tr>
<tr>
<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences - S</td>
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</tbody>
</table>

|        |                                                    | 17.5  |

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 212</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 242</td>
<td>Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 331</td>
<td>Piano Class (or MUS 234 Voice for piano principals)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>2</td>
</tr>
<tr>
<td>MUED 202</td>
<td>Practical Applications in Music Education</td>
<td>0.5</td>
</tr>
<tr>
<td>PHS 214</td>
<td>African-American Music - AH, D1</td>
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</table>

**Hours**

|        |                                                    | 16.5  |

**Summer**

<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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|        |                                                    | 3     |

**Year 3**

**Fall**

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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
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</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Introduction to Brass</td>
<td>1</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
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<tr>
<td>MUS 332</td>
<td>Piano Class (or MUS 333 Voice for piano principals)</td>
<td>1</td>
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<tr>
<td>MUS 347</td>
<td>Analysis I</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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<tr>
<td></td>
<td>MUS 345 Orchestral Scoring</td>
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<td></td>
<td>MUS 346 Band/Choral Scoring</td>
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<td>MUS 505 Introduction to Orff Schulwerk: Music &amp; Movement Education</td>
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</tr>
<tr>
<td>MUED 301</td>
<td>Practical Applications in Music Education</td>
<td>0.5</td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
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**Hours**

|        |                                                    | 15.5  |

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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</tr>
<tr>
<td></td>
<td>MUS 345 Orchestral Scoring</td>
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</tr>
<tr>
<td></td>
<td>MUS 346 Band/Choral Scoring</td>
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<td></td>
<td>MUS 505 Introduction to Orff Schulwerk: Music &amp; Movement Education</td>
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<tr>
<td>MUED 302</td>
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<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
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</tr>
<tr>
<td>MUS 360</td>
<td>Conducting II (MUS 360-01)</td>
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<tr>
<td>MUS 428</td>
<td>Choral Techniques</td>
<td>2</td>
</tr>
<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
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|        |                                                    | 17.5  |

**Summer**

<table>
<thead>
<tr>
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<tbody>
<tr>
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|        |                                                    | 3     |

**Year 4**

**Fall**

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<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
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<tr>
<td>MUS 571</td>
<td>Pedagogy (Voice Pedagogy)</td>
<td>2</td>
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<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
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<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>MUED 556</td>
<td>Special Methods in Secondary Teaching</td>
<td>2</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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|        |                                                    | 17    |

**Spring**

<table>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>Human Interaction/Professional Growth</td>
<td>2</td>
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<tr>
<td>MUED 520</td>
<td>Student Teaching Elementary School (CUE)</td>
<td>5</td>
</tr>
<tr>
<td>MUED 534</td>
<td>Student Teaching Secondary (CUE)</td>
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|        |                                                    | 12    |

**Minimum Total Hours**

|        |                                                    | 134   |
Keyboard Emphasis

<table>
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<th>Hours</th>
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<tbody>
<tr>
<td>Year 1</td>
<td></td>
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</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
</tr>
<tr>
<td>MUS 111</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 133</td>
<td>Functional Study (Voice)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 123</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
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#### Minimum Total Hours

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**General Education: Cardinal Core Natural Sciences - S** | 3

**General Education: Cardinal Core Natural Sciences Lab - SL** | 1

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**Minimum Total Hours** | 136

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| Minimum Total Hours           | 135 |

University of Louisville
### Percussion Emphasis, Track in Jazz Studies

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**Minimum Total Hours**: 154
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Keyboard Emphasis, Track in Jazz Studies

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Additional Requirements

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Minimum Total Hours: 153
Music Education, Pre-Certification (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

The Bachelor of Music in Music Education, Pre-Certification program is designed for students intending to complete the degree in anticipation of enrollment in the Master of Arts in Teaching program (MAT), when additional professional education, music education, research methods, and clinical education course work are required.

The Bachelor of Music in Music Education program is designed to serve students seeking to develop the skills, experiences, and information to qualify graduates for public school music teacher “New Teacher” certification in the Commonwealth of Kentucky (P-12). More information on this program can be found on the BM in Music Education catalog page (p. 275).

Degree Summaries

**Music Education (Pre-Certification): Brass, Percussion, or Wind Emphasis**

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General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH

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**Year 4**

**Fall**

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| Hours     | 14 |

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**Year 5**

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</thead>
<tbody>
<tr>
<td>MUED 533</td>
<td>Human Interaction/Professional Growth</td>
<td>2</td>
</tr>
<tr>
<td>MUED 520</td>
<td>Student Teaching Elementary School (CUE)</td>
<td>5</td>
</tr>
<tr>
<td>MUED 534</td>
<td>Student Teaching Secondary (CUE)</td>
<td>5</td>
</tr>
</tbody>
</table>

| Hours     | 12 |

Minimum Total Hours: 152

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
## Music Education (Pre-Certification): Brass, Percussion, or Wind Emphasis w/Track in Jazz Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements [link]</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Program/Emphasis Requirements</td>
<td>45</td>
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<tr>
<td></td>
<td>Track Requirements</td>
<td>19</td>
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<td></td>
<td>Minimum Total Hours</td>
<td>142</td>
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## Music Education (Pre-Certification): Keyboard Emphasis w/Track in Jazz Studies

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements [link]</td>
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</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Program/Emphasis Requirements</td>
<td>48</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>126</td>
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</table>

## Music Education (Pre-Certification): Strings Emphasis w/Track in Jazz Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements [link]</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Program/Emphasis Requirements</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>19</td>
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<td></td>
<td>Minimum Total Hours</td>
<td>125</td>
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</table>

## General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements [link]</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- **PAS 214** African-American Music - AH, D1
- **ANTH 205** Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

## College/School Requirements

### School of Music Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 141</td>
<td>Theory I &lt;sup&gt;2&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>MUS 142</td>
<td>Theory II &lt;sup&gt;2&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td></td>
</tr>
<tr>
<td>MUS 242</td>
<td>Theory IV</td>
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</tbody>
</table>

### Music Literature

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>4</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (Eight 1-hour courses)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
<td>0</td>
</tr>
</tbody>
</table>

### Piano Class/Voice Class <sup>5</sup>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 131</td>
<td>Piano Class</td>
<td>3</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Piano Class</td>
<td></td>
</tr>
<tr>
<td>MUS 231</td>
<td>Piano Class III</td>
<td></td>
</tr>
<tr>
<td>MUS 297</td>
<td>Piano Proficiency (Instrument/Voice)</td>
<td></td>
</tr>
</tbody>
</table>

* or for Jazz Track students*

### Departmental Admission Requirements

Students in this unit are admitted directly into their degree program. Students considering the Tracks in Jazz Studies must audition and be admissible to both Music Education and Jazz Studies.
MUS 100  Piano Class
& MUS 130  Jazz Piano Class
& MUS 197  Piano Proficiency (Instrument/Voice, Jazz tracks)

- or keyboard students (Voice lessons) -
MUS 133  Functional Study
& MUS 134  Functional Study
& MUS 233  Functional Study
& MUS 197  Piano Proficiency

- or keyboard students in Jazz Track (Voice lessons) -
MUS 133  Functional Study
& MUS 134  Functional Study
& MUS 233  Functional Study
& MUS 197  Piano Proficiency

Applied Lessons (four 2-hour courses) 8
MUS 111  Principal Applied Study
& MUS 112  Principal Applied Study
MUS 211  Principal Applied Study
& MUS 212  Principal Applied Study

MUS 347  Analysis I (Jazz Track students take MUS 349) 2
MUS 100  Introduction to Music Study 1

Minimum Total Hours 47

1 MUS courses may not be taken to fulfill any General Education requirement.

2 Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141 Theory I. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.

3 Strings take section 01, others solely dependent on the ensemble audition. Music Education students who are woodwind, brass, or percussion principals are required to fulfill two years of ensemble performance in the Marching Band. Entering students will be expected to fulfill this requirement during the freshman and sophomore years. Transfer students will be required to fulfill a minimum of one year. A second year may be required based upon evaluation of the transcript. Woodwind, brass, or percussion principals are also recommended to complete one semester of a Principal Jazz Ensemble.

4 Piano Principals will replace Piano Class with Functional Voice Study MUS 133, MUS 134, and MUS 233. Students must be enrolled continuously in Piano Class until their requirement has been completed. Students will take the Piano Proficiency Examination at the end of MUS 231. Any student not completing the Piano Proficiency Examination will be required to take MUS 232 until the Piano Proficiency Examination requirement is complete. Students in the Tracks in Jazz Studies who are not required to take MUS 231 will take the Piano Proficiency Examination at the end of MUS 132. Those who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with Secondary Piano if faculty load permits. Entering students who have a background in piano may register for Piano Proficiency MUS 297 for one semester with approval of the Keyboard Area.

Upper Division Assessment
All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV; MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S, for 4 semesters; Ensemble Participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105 and 3 additional Gen Ed courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

Admission to Teacher Education
Students must apply to Teacher Education in the second semester of their Sophomore year (February 1 application deadline). Failure to be admitted to teacher education will delay students’ ability to take advanced classes in music education and teacher education.

Requirements for application to teacher education are the following:

- Minimum 45 credit hours (completed or in progress at the time of application) with minimum 2.75 cumulative college grade point average;
- Grade of C+ or higher in MUS 116;
- Successful completion of an additional two credit hours of Music Education courses;
- Passing PPST PRAXIS I scores as follows: Math (150), Writing (162), Reading (156);
- C or better in ENGL 102;
- C or better in Oral Communication course (such as COMM 111 or COMM 115);
- Professional Statement (as directed in application);
- Three Letters of Recommendation (as directed in application);
- Successful Interview;
- Agreement to Professional Code of Ethics, Statement of Understanding of Admission Guidelines, and CEHD Acceptable Use of Technology forms (as directed in application).

Students must complete 200 hours of field observations and related activities, as outlined by the Education Professional Standards Board (EPSB) prior to being permitted to student teach. These field experiences must be non-paid experiences. This regulation will begin based on regulations and timelines stipulated by EPSB.

Students must be admitted to Teacher Education before being permitted to take the following upper-division music education courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td></td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td></td>
</tr>
<tr>
<td>MUS 337</td>
<td>Marching Band Methods</td>
<td></td>
</tr>
</tbody>
</table>
Program/Major Requirements

Note: All full-time undergraduate music majors are required to participate each semester in the principal ensemble designated for their primary instrument. Specific ensemble assignment is dependent on the result of the ensemble auditions.

- Strings: Symphony Orchestra
- Woodwind, Brass, or Percussion: Symphonic Band, Concert Band, Wind Ensemble, Wind Symphony, Marching Band, Community Band
- Voice: Collegiate Chorale, University Chorus
- Keyboard/Guitar: Any of the above depending upon qualifications and/or interests
- Jazz: Jazz Ensemble, Jazz Lab, Jazz Repertory Ensemble, Vocal Jazz Ensemble

Brass Emphasis

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification (p. 47)" (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 253</td>
<td>Brass Methods</td>
<td>6</td>
</tr>
<tr>
<td>MUS 235</td>
<td>Woodwind Methods</td>
<td></td>
</tr>
<tr>
<td>MUS 236</td>
<td>Advanced Woodwind Methods</td>
<td></td>
</tr>
<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
<td></td>
</tr>
<tr>
<td>MUS 342</td>
<td>Band Pedagogy and Educational Wind Band Literature</td>
<td></td>
</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
<td></td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td></td>
</tr>
<tr>
<td>MUS 337</td>
<td>Marching Band Methods</td>
<td>1</td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; MUS 360</td>
<td>Conducting II</td>
<td></td>
</tr>
</tbody>
</table>

Practical Applications in Music Education (four half-hour courses)

MUS 201 & MUS 202 Practical Applications in Music Education
& MUS 301 Practical Applications in Music Education
& MUS 302 Practical Applications in Music Education

MUS 116 Introduction to Music Education 1
MUS 118 Introduction to Jazz Improvisation (not required for Jazz Track students, see Jazz Studies course list below) 1
MUS 338 Jazz Methods 2
MUED 556 Special Methods in Secondary Teaching 2
ECPY 507 Learning Theory and Human Growth and Development 3

or EDTP 107 Human Development and Learning
EDTP 420 Reading and Writing Across the Curriculum 3
EDTP 502 Exploring Teaching in the Sociopolitical Contexts of P-12 Schools 3

or EDTP 201 The Teaching Profession - SB
MUS 495 Senior Research Paper/Project - CUE (CUE) 0

Supportive Area

Applied "Classical" Lessons (three 2-hour courses) 6

- MUS 311 Principal Applied Study
- & MUS 312 Principal Applied Study
- & MUS 411 Principal Applied Study

- MUS 346 Band/Choral Scoring 2
- MUS 119 Minor Ensembles (four half-hour courses) 2

Functional or Secondary Applied Lesson on non-principal instrument 1
Three hours selected from the following: 3

- MUS 227 Voice Class (1 credit)
- Functional or Secondary Applied Lessons (1-2 credits) *
- MUS 577 Marching Band Drill Writing (2 credits)
- Introduction to Orff Schulwerk (1-2 credits)
- MUED 405 Introduction to Orff Schulwerk: Music and Movement Education (1 credit)
- MUED 505 Introduction to Orff Schulwerk: Music & Movement Education (2 credit)

Minimum Total Hours 46

- Non-principal instrument

Brass Emphasis with a Track in Jazz Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Coursework listed above, minus MUS 118 45</td>
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</tr>
<tr>
<td>MUS 105</td>
<td>Jazz Applied</td>
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<tr>
<td>&amp; MUS 106</td>
<td>Jazz Applied</td>
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</tr>
<tr>
<td>MUS 205</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (two 1-hour Jazz Ensembles)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (two additional half-hour Jazz Minor Ensembles)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Style and Analysis MUS 351-01)</td>
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</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Theory-MUS 351-02)</td>
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</tr>
<tr>
<td>MUS 435</td>
<td>Jazz Arranging I</td>
<td>2</td>
</tr>
</tbody>
</table>

One of the following sequences: 4
Wind Emphasis

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification (p. ...") (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUS 235</td>
<td>Woodwind Methods</td>
<td>2</td>
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<tr>
<td>MUS 253</td>
<td>Brass Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 254</td>
<td>Advanced Brass Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 335</td>
<td>String Methods I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 342</td>
<td>Band Pedagogy and Educational Wind Band Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td>2</td>
</tr>
<tr>
<td>MUS 337</td>
<td>Marching Band Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 360</td>
<td>Conducting II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 338</td>
<td>Jazz Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUE 201</td>
<td>Practical Applications in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUE 202</td>
<td>Practical Applications in Music Education</td>
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</tr>
<tr>
<td>MUE 301</td>
<td>Practical Applications in Music Education</td>
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<tr>
<td>MUE 302</td>
<td>Practical Applications in Music Education</td>
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</tr>
<tr>
<td>MUS 116</td>
<td>Introduction to Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation (not required for Jazz Track students, see Jazz Studies courselist below)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 338</td>
<td>Jazz Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUE 556</td>
<td>Special Methods in Secondary Teaching</td>
<td>2</td>
</tr>
<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
<td>2</td>
</tr>
<tr>
<td>or EDTP 107</td>
<td>Human Development and Learning</td>
<td>2</td>
</tr>
<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>EDTP 502</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>2</td>
</tr>
<tr>
<td>or EDTP 201</td>
<td>The Teaching Profession - SB</td>
<td>2</td>
</tr>
<tr>
<td>MUS 495</td>
<td>Senior Research Paper/Project - CUE (CUE)</td>
<td>2</td>
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</tbody>
</table>

Minimum Total Hours

46

Percussion Emphasis

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification (p. ...") (above) for requirements and a list of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 312</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 411</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 346</td>
<td>Band/Choral Scoring</td>
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</tr>
</tbody>
</table>

Minimum Total Hours

64

Determined by audition
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
<td>2</td>
</tr>
<tr>
<td>MUS 337</td>
<td>Marching Band Methods</td>
<td>1</td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; MUS 360</td>
<td>Conducting II</td>
<td></td>
</tr>
<tr>
<td><strong>MUS Applications in Music Education (four half-hour courses)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 116</td>
<td>Introduction to Music Education</td>
<td>1</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Introduction to Jazz Improvisation (not required for Jazz Track students, see Jazz Studies courselist below)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 338</td>
<td>Jazz Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUED 556</td>
<td>Special Methods in Secondary Teaching</td>
<td>2</td>
</tr>
<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>or EDTP 107</td>
<td>Human Development and Learning</td>
<td></td>
</tr>
<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 502</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>3</td>
</tr>
<tr>
<td>or EDTP 201</td>
<td>The Teaching Profession - SB</td>
<td></td>
</tr>
<tr>
<td>MUS 495</td>
<td>Senior Research Paper/Project - CUE (CUE)</td>
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<tr>
<td><strong>Supportive Area</strong></td>
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</tr>
<tr>
<td><strong>Applied Lesson (three 2-hour courses)</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
<td></td>
</tr>
<tr>
<td>&amp; MUS 312</td>
<td>Principal Applied Study</td>
<td></td>
</tr>
<tr>
<td>&amp; MUS 411</td>
<td>Principal Applied Study</td>
<td></td>
</tr>
<tr>
<td>MUS 346</td>
<td>Band/Choral Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (four half-hour courses)</td>
<td>2</td>
</tr>
<tr>
<td>Functional or Secondary Applied Lesson on non-principal instrument</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Three hours selected from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUS 227</td>
<td>Voice Class (1 credit)</td>
<td></td>
</tr>
<tr>
<td>Functional or Secondary Applied Lessons (1-2 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 577</td>
<td>Marching Band Drill Writing (2 credits)</td>
<td></td>
</tr>
<tr>
<td>Introduction to Orff Schulwerk (1-2 credits)</td>
<td></td>
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</tr>
<tr>
<td>MUED 405</td>
<td>Introduction to Orff Schulwerk: Music and Movement Education (1 credit)</td>
<td></td>
</tr>
<tr>
<td>MUED 505</td>
<td>Introduction to Orff Schulwerk: Music &amp; Movement Education (2 credit)</td>
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<tr>
<td>Minimum Total Hours</td>
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**Percussion Emphasis with a Track in Jazz Studies**

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<td><strong>Coursework listed above, minus MUS 118</strong></td>
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<tr>
<td>MUS 205</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (two 1-hour Jazz Ensembles)</td>
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<tr>
<td>MUS 119</td>
<td>Minor Ensembles (two additional half-hour Jazz Minor Ensembles)</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Style and Analysis MUS 351-01)</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Theory)</td>
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<td>MUS 435</td>
<td>Jazz Arranging I</td>
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<tr>
<td>MUS 138</td>
<td>Jazz Improvisation</td>
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</tr>
<tr>
<td>&amp; MUS 340</td>
<td>Jazz Improvisation II</td>
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</tr>
<tr>
<td>MUS 340</td>
<td>Jazz Improvisation II</td>
<td></td>
</tr>
<tr>
<td>&amp; MUS 440</td>
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**Keyboard Emphasis**

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to &quot;Admission to Teacher Certification (p. 297)&quot; (above) for requirements and a list of courses.

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<td><strong>Code</strong></td>
<td><strong>Title</strong></td>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Plan Courses: Major Area</strong></td>
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<td><strong>Instrumental Methods, Keyboard Emphasis</strong></td>
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<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
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<td>MUS 252</td>
<td>Introduction to Brass</td>
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<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
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<tr>
<td>MUS 335</td>
<td>String Methods I</td>
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<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
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<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
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<tr>
<td>MUS 428</td>
<td>Choral Techniques</td>
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<tr>
<td><strong>Practical Applications in Music Education (four half-hour courses)</strong></td>
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<td>&amp; MUE 301</td>
<td>Practical Applications in Music Education</td>
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<td>&amp; MUE 302</td>
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<td>MUS 118</td>
<td>Introduction to Jazz Improvisation (not required for Jazz Track students, see Jazz Studies courselist below)</td>
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<td>MUS 338</td>
<td>Jazz Methods</td>
<td>2</td>
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<td>MUS 359</td>
<td>Conducting I</td>
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<tr>
<td>&amp; MUS 360</td>
<td>Conducting II</td>
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<td>Human Development and Learning</td>
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<td>EDTP 420</td>
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<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
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<tr>
<td>or EDTP 201</td>
<td>The Teaching Profession - SB</td>
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<td>Senior Research Paper/Project - CUE (CUE)</td>
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<td><strong>Applied Lesson (three 2-hour courses)</strong></td>
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<td>MUS 311</td>
<td>Principal Applied Study</td>
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<tr>
<td>&amp; MUS 312</td>
<td>Principal Applied Study</td>
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<tr>
<td>&amp; MUS 411</td>
<td>Principal Applied Study</td>
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<tr>
<td>MUS 227</td>
<td>Voice Class (1 credit)</td>
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<td>MUS 577</td>
<td>Marching Band Drill Writing (2 credits)</td>
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<td>Introduction to Orff Schulwerk: Music and Movement Education (1 credit)</td>
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<tr>
<td>MUED 505</td>
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### Keyboard Emphasis with a Track in Jazz Studies

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<tr>
<td>MUS 105</td>
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<td>6</td>
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<tr>
<td>&amp; MUS 106</td>
<td>Jazz Applied</td>
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<tr>
<td>&amp; MUS 205</td>
<td>Jazz Applied</td>
<td></td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (two 1-hour Jazz Ensembles)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (four additional half-hour courses: two Piano Ensemble, two Jazz Combo)</td>
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</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Style and Analysis MUS 351-01)</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (Jazz Theory MUS 351-02)</td>
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<tr>
<td>MUS 371</td>
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<tr>
<td>MUS 138</td>
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<td>&amp; MUS 340</td>
<td>Jazz Improvisation II</td>
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<tr>
<td>- or -</td>
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</tr>
<tr>
<td>MUS 340</td>
<td>Jazz Improvisation II</td>
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<tr>
<td>&amp; MUS 440</td>
<td>Jazz Improvisation III</td>
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** Determined by audition

### Strings Emphasis

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification (p. 297)" (above) for requirements and a list of courses.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 229</td>
<td>Introduction to Woodwinds</td>
<td>6</td>
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<tr>
<td>MUS 252</td>
<td>Introduction to Brass</td>
<td></td>
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<tr>
<td>MUS 137</td>
<td>Percussion Methods</td>
<td></td>
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<tr>
<td>MUS 335</td>
<td>String Methods I</td>
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<td>MUS 336</td>
<td>String Methods II</td>
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<tr>
<td>MUS 339</td>
<td>String Pedagogy and Educational String Literature</td>
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</tr>
<tr>
<td>MUS 228</td>
<td>Elementary School Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Frameworks for Teaching Music in a Diverse Society</td>
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<tr>
<td>MUS 227</td>
<td>Voice Class</td>
<td>1</td>
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<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>4</td>
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<td>&amp; MUS 360</td>
<td>Conducting II</td>
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### Supportive Area

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUS 311</td>
<td>Principal Applied Study</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MUS 312</td>
<td>Principal Applied Study</td>
<td></td>
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<tr>
<td>&amp; MUS 411</td>
<td>Principal Applied Study</td>
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</tr>
<tr>
<td>MUS 345</td>
<td>Orchestral Scoring</td>
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<td>MUS 346</td>
<td>Band/Choral Scoring</td>
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<tr>
<td>or MUED 505</td>
<td>Introduction to Orff Schulwerk: Music &amp; Movement Education</td>
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<tr>
<td>MUS 119</td>
<td>Minor Ensembles (two half-hour courses)</td>
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<tr>
<td>MUS 102</td>
<td>Practical Applications in Music Education</td>
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Minimum Total Hours: 47
### Code | Title | Hours
--- | --- | ---
**Plan Courses: Major Area**

#### Instrumental Methods, Vocal Emphasis

- **MUS 229** Introduction to Woodwinds
- **MUS 252** Introduction to Brass
- **MUS 137** Percussion Methods
- **MUS 335** String Methods I
- **MUS 228** Elementary School Music Methods
- **MUS 328** Frameworks for Teaching Music in a Diverse Society
- **MUS 428** Choral Techniques
- **MUS 359** Conducting I
- **MUS 360** Conducting II

#### Practical Applications in Music Education (four half-hour courses)

<table>
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<tr>
<td>MUED 201</td>
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<td>&amp; MUED 202</td>
<td>Practical Applications in Music Education</td>
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<tr>
<td>&amp; MUED 301</td>
<td>Practical Applications in Music Education</td>
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<tr>
<td>&amp; MUED 302</td>
<td>Practical Applications in Music Education</td>
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- **MUS 116** Introduction to Music Education
- **MUS 118** Introduction to Jazz Improvisation
- **MUS 338** Jazz Methods
- **MUS 359** Conducting II
- **MUS 360** Conducting II

- **MUED 556** Special Methods in Secondary Teaching
- **ECPY 507** Learning Theory and Human Growth and Development
- **or ETP 107** Human Development and Learning
- **EDTP 420** Reading and Writing Across the Curriculum
- **EDTP 502** Exploring Teaching in the Sociopolitical Contexts of P-12 Schools
- **or ETP 201** The Teaching Profession - SB

- **MUS 495** Senior Research Paper/Project - CUE (CUE)

#### Supportive Area

- **MUS 311** Principal Applied Study
- **MUS 312** Principal Applied Study
- **MUS 411** Principal Applied Study

- **MUS 571** Pedagogy (Voice Pedagogy MUS 571-05)
- **MUS 331** Piano Class
- **MUS 332** Piano Class
- **MUS 123** Diction
- **MUS 124** Diction
- **MUS 346** Band/Choral Scoring
- **MUS 345** Orchestral Scoring
- **or MUED 505** Introduction to Orff Schulwerk: Music & Movement Education

#### Minimum Total Hours

- **65**

**Vocal Emphasis**

Some required courses require admission to Teacher Certification prior to enrollment. Please refer to "Admission to Teacher Certification (p. )" (above) for requirements and a list of courses.

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**Minimum Total Hours**

- **48**

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<tr>
<td>MUS 495</td>
<td>Senior Research Paper/Project - CUE</td>
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</table>

### Flight Plans

- **Brass Emphasis**

#### Year 1

- **Fall**
  - **MUS 100** Introduction to Music Study
  - **MUS 111** Principal Applied Study
  - **MUS 109** Major Ensembles
  - **MUS 141** Theory I
  - **MUS 97** Recital Attendance
  - **MUS 131** Piano Class
  - **MUS 119** Minor Ensembles
  - **ENGL 101** Introduction to College Writing - WC
  - **General Education: Cardinal Core Quantitative Reasoning - QR**
  - **Hours**
  - **15.5**

- **Spring**
  - **MUS 112** Principal Applied Study
  - **MUS 109** Major Ensembles
  - **MUS 142** Theory II
  - **MUS 97** Recital Attendance
  - **MUS 132** Piano Class
  - **MUS 116** Introduction to Music Education
  - **MUS 119** Minor Ensembles
  - **ENGL 102** Intermediate College Writing - WC
  - **General Education: Cardinal Core Oral Communication - OC**
  - **Hours**
  - **15.5**

- **Year 2**

- **Fall**
  - **MUS 211** Principal Applied Study
  - **MUS 109** Major Ensembles
  - **MUS 241** Theory III
  - **MUS 97** Recital Attendance
  - **MUS 231** Piano Class III
  - **MUS 297** Piano Proficiency
  - **MUS 118** Introduction to Jazz Improvisation
  - **MUS 235** Woodwind Methods
  - **MUS 335** String Methods I
  - **MUS 119** Minor Ensembles
  - **MUED 201** Practical Applications in Music Education
  - **EDTP 201** The Teaching Profession - SB
  - **Hours**
  - **15**

- **Spring**
  - **MUS 212** Principal Applied Study
  - **MUS 109** Major Ensembles
  - **MUS 242** Theory IV
  - **MUS 361** Music Literature I (1000-1750)
  - **MUS 97** Recital Attendance
  - **MUS 359** Conducting I
  - **MUS 119** Minor Ensembles
  - **MUS 236** Advanced Woodwind Methods
  - **MUED 202** Practical Applications in Music Education
  - **Hours**
  - **0.5**
Brass Emphasis with Track in Jazz Studies

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<td>MUS 109</td>
<td>Major Ensembles (Marching Band)</td>
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<td>MUS 141</td>
<td>Theory I</td>
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<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<td>MUS 97</td>
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<td>MUS 253</td>
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<tr>
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<td>MUS 228</td>
<td>Elementary School Music Methods</td>
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<td>MUS 337</td>
<td>Marching Band Methods</td>
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<td>MUS 228</td>
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<td>MUS 337</td>
<td>Marching Band Methods</td>
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<tr>
<td></td>
<td>MUED 301</td>
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<td>MUS 360</td>
<td>Conducting II (MUS 360-02)</td>
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<td>MUS 337</td>
<td>Marching Band Methods</td>
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<td></td>
<td>MUED 301</td>
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<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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### Percussion Emphasis

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| Hours   | 16                                                        |   |

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| Hours   | 16                                                        |   |

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| Hours   | 15.5                                                      |   |

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| Hours   | 15.5                                                      |   |

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<td>Studies in Jazz (Jazz Style &amp; Analysis MUS 351-01)</td>
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| Hours   | 16                                                        |   |

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| General Education: Cardinal Core Natural Sciences with Lab - B | 4     |

| Hours   | 15.5                                                      |   |

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| Hours   | 16                                                        |   |

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| General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH | 3     |

| Hours   | 16                                                        |   |

| Minimum Total Hours | 142                                                      |   |
### Percussion Emphasis with Track in Jazz Studies

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|          | Hours | Minimum Total Hours | 142  |

#### Year 1

**Fall**

- MUS 100 Introduction to Music Study | 1
- MUS 111 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- MUS 141 Theory I | 4
- MUS 97 Recital Attendance | 0
- MUS 131 Piano Class | 1
- MUS 119 Minor Ensembles | 0.5
- ENGL 101 Introduction to College Writing - WC | 3
- General Education: Cardinal Core Quantitative Reasoning - QR | 3

|          | Hours | 15.5  |

**Spring**

- MUS 112 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- MUS 142 Theory II | 4
- MUS 97 Recital Attendance | 0
- MUS 132 Piano Class | 1
- MUS 116 Introduction to Music Education | 1
- MUS 119 Minor Ensembles | 0.5
- ENGL 102 Intermediate College Writing - WC | 3
- General Education: Cardinal Core Oral Communication - OC | 3

|          | Hours | 15.5  |

#### Year 2

**Fall**

- MUS 211 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- MUS 241 Theory III | 4
- MUS 97 Recital Attendance | 0
- MUS 231 Piano Class III | 1
- MUS 297 Piano Proficiency | 0
- MUS 118 Introduction to Jazz Improvisation | 1
- MUS 235 Woodwind Methods | 1

|          | MUS 335 String Methods I | 1     |
|          | MUS 119 Minor Ensembles | 0.5   |
|          | MUED 201 Practical Applications in Music Education | 0.5 |
|          | ANTH 205 Music in World Cultures - D2, SB | 3     |

|          | Hours | 15    |

**Spring**

- MUS 212 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- MUS 242 Theory IV | 4
- MUS 361 Music Literature I (1000-1750) | 3
- MUS 97 Recital Attendance | 0
- MUS 359 Conducting I | 2
- MUS 119 Minor Ensembles | 0.5
- MUS 137 Percussion Methods | 1
- MUED 202 Practical Applications in Music Education | 0.5
- EDTP 201 The Teaching Profession - SB | 3

|          | Hours | 17    |

#### Year 3

**Fall**

- MUS 311 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- MUS 362 Music Literature II (Classical & Early Romantic Music) | 3
- MUS 97 Recital Attendance | 0
- MUS 347 Analysis I | 2
- MUS 360 Conducting II (MUS 360-02) | 2
- MUS 253 Brass Methods | 1
- MUS 228 Elementary School Music Methods | 2
- MUS 337 Marching Band Methods | 1
- MUED 301 Practical Applications in Music Education | 0.5
- Supplemental Course | 1

|          | Hours | 15    |

**Spring**

- MUS 312 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- MUS 363 Music Literature III (1850-present) | 3
- MUS 97 Recital Attendance | 0
- MUS 346 Band/Choral Scoring | 2
- MUS 254 Advanced Brass Methods | 1
- MUS 328 Frameworks for Teaching Music in a Diverse Society | 2
- MUS 338 Jazz Methods | 2
- MUED 302 Practical Applications in Music Education | 0.5
- MUS 342 Band Pedagogy and Educational Wind Band Literature | 1
- MUED 301 Functional or Secondary Applied Lesson | 1

|          | Hours | 15.5  |

#### Year 4

**Fall**

- MUS 411 Principal Applied Study | 2
- MUS 109 Major Ensembles | 1
- Supplemental Course | 2
- General Education: Cardinal Core Arts & Humanities - AH | 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH | 3
- General Education: Cardinal Core Natural Sciences - S | 3
- General Education: Cardinal Core Natural Sciences Lab - SL | 1

|          | Hours | 15    |

**Spring**

- MUS 109 Major Ensembles | 1
- EDTP 420 Reading and Writing Across the Curriculum | 3
- ECPY 507 Learning Theory and Human Growth and Development | 3
- MUED 556 Special Methods in Secondary Teaching | 2
- MUS 495 Senior Research Paper/Project - CUE (CUE) | 0
- PAS 214 African-American Music - AH, D1 | 3
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| Spring | MUS 312 | Principal Applied Study | 2 |
|        | MUS 109 | Major Ensembles | 1 |
|        | MUS 119 | Minor Ensembles | 1 |
|        | MUS 363 | Music Literature III (1860-present) | 3 |
|        | MUS 97 | Recital Attendance | 0 |
|        | MUS 346 | Band/Choral Scoring | 2 |
|        | MUS 328 | Frameworks for Teaching Music in a Diverse Society | 2 |
|        | MUS 302 | Practical Applications in Music Education | 0.5 |
|        | MUS 556 | Special Methods in Secondary Teaching | 2 |
|        | MUS 342 | Band Pedagogy and Educational Wind Band Literature | 1 |
|        | MUS 351 | Studies in Jazz (Jazz Style & Analysis MUS 351-01) | 2 |
|        | Hours | 16 |

| Year 4 | Fall | MUS 411 | Principal Applied Study | 2 |
|        | MUS 105 | Jazz Applied | 2 |
|        | MUS 109 | Major Ensembles | 1 |
|        | MUS 119 | Minor Ensembles | 1 |
|        | MUS 253 | Brass Methods | 1 |
|        | MUS 137 | Percussion Methods | 1 |
|        | Supplemental Course | 1 |
|        | ANTH 205 | Music in World Cultures - D2, SB | 3 |
|        | General Education: Cardinal Core Natural Sciences - S | 3 |
|        | General Education: Cardinal Core Natural Sciences Lab - SL | 1 |
|        | Hours | 15.5 |

| Spring | MUS 106 | Jazz Applied | 2 |
|        | MUS 109 | Major Ensembles | 1 |
|        | MUS 109 | Major Ensembles | 1 |
|        | MUS 254 | Advanced Brass Methods | 1 |
|        | Supplemental Course | 1 |
|        | MUS 349 | Jazz Analysis | 2 |
|        | MUS 338 | Jazz Methods | 2 |
|        | EDTP 201 | The Teaching Profession - SB | 3 |
|        | General Education: Cardinal Core Arts & Humanities - AH | 3 |
|        | Hours | 16 |

| Year 5 | Fall | MUS 205 | Jazz Applied | 2 |
|        | MUS 109 | Major Ensembles | 1 |
|        | MUS 495 | Senior Research Paper/Project - CUE (CUE) | 0 |
|        | Supplemental Course | 1 |
|        | EDTP 420 | Reading and Writing Across the Curriculum | 3 |
|        | ECPY 507 | Learning Theory and Human Growth and Development | 3 |
|        | PAS 214 | African-American Music - AH, D1 | 3 |
|        | Hours | 16 |
## Strings Emphasis

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## Strings Emphasis with Track in Jazz Studies

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**Keyboard Emphasis**

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MUS 328 Jazz Methods 2
MUS 360 Conducting II 2
MUS 428 Choral Techniques 2

Spring 2016
MUS 112 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 142 Theory II 4
MUS 97 Recital Attendance 0
MUS 134 Functional Study (Voice) 1
MUS 124 Diction 1
MUS 116 Introduction to Music Education 1
ENGL 102 Intermediate College Writing - WC 3

General Education: Cardinal Core Quantitative Reasoning - GR 3

Year 2
Fall 2015
MUS 211 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 241 Theory III 4
MUS 97 Recital Attendance 0
MUS 233 Functional Study (Voice) 1
MUS 118 Introduction to Jazz Improvisation 1
MUS 229 Introduction to Woodwinds 1
MUS 335 String Methods I 1
MUS 201 Practical Applications in Music Education 0.5
General Education: Cardinal Core Oral Communication - OC 3

Year 3
Fall 2016
MUS 311 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 97 Recital Attendance 0
MUS 362 Music Literature II (Classical & Early Romantic Music) 3
MUS 333 Functional Study (Voice) 1
MUS 347 Analysis I 2
MUS 345 Orchestral Scoring 2
or MUS 505 or Introduction to Off Schulwerk: Music & Movement Education
MUS 252 Introduction to Brass 1
MUS 137 Percussion Methods 1
MUS 228 Elementary School Music Methods 2
MUS 301 Practical Applications in Music Education 0.5

Spring 2017
MUS 312 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 363 Music Literature III (1860-present) 3
MUS 97 Recital Attendance 0
MUS 334 Functional Study (Voice) 1
MUS 346 Band/Choral Scoring 2
MUS 302 Practical Applications in Music Education 0.5
MUS 328 Frameworks for Teaching Music in a Diverse Society 2

Year 4
Fall 2017
MUS 411 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 571 Pedagogy (Voice Pedagogy) 2
MUS 556 Special Methods in Secondary Teaching 2
EDTP 201 The Teaching Profession - SB 3
MUS 205 Music in World Cultures - D2, SB 3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3

General Education: Cardinal Core Natural Sciences - S 3
General Education: Cardinal Core Arts & Humanities - AH 3

Fall 2018
MUS 109 Major Ensembles 1
ECPY 507 Learning Theory and Human Growth and Development 3
EDTP 420 Reading and Writing Across the Curriculum 3
MUS 495 Senior Research Paper/Project - CUE (CUE) 0
PAS 214 African-American Music - AH, D1 3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3

General Education: Cardinal Core Oral Communication - OC 3

Year 5
Fall 2019
MUS 100 Introduction to Music Study 1
MUS 111 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 141 Theory I 4
MUS 97 Recital Attendance 0
MUS 133 Functional Study (Voice) 1
MUS 123 Diction 1
ENGL 101 Introduction to College Writing - WC 3

General Education: Cardinal Core Oral Communication - OC 3

Spring 2020
MUS 112 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 142 Theory II 4
MUS 97 Recital Attendance 0
MUS 134 Functional Study (Voice) 1
MUS 116 Introduction to Music Education 1
MUS 138 Jazz Improvisation 2
or MUS 340 Jazz Improvisation II 2
MUS 124 Diction 1
ENGL 102 Intermediate College Writing - WC 3

Course Title Hours

- Introduction to College Writing - WC 3
- Theory I 4
- Functional Study (Voice) 1
- Introduction to Music Study 1
- Functional Study (Voice) 1
- Theory II 4
- Introduction to Music Education 1
- Jazz Improvisation 2
- Introduction to Woodwinds 1
- Intermediate College Writing - WC 3
MUS 233 Functional Study (Voice) 1
MUS 197 Piano Proficiency 0
MUS 198 Jazz Piano Proficiency 0
MUS 340 Jazz Improvisation II 2
General Education: Cardinal Core Quantitative Reasoning - QR 3

Hours 15.5

Spring
MUS 212 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 242 Theory IV 4
MUS 361 Music Literature I (1600-1750) 3
MUS 97 Recital Attendance 0
MUS 349 Jazz Analysis 2
MUS 359 Conducting I 2
MUED 202 Practical Applications in Music Education 0.5
MUS 234 Functional Study (Voice) 1

Hours 15.5

Year 3
Fall
MUS 311 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 362 Music Literature II (Classical & Early Romantic Music) 3
MUS 97 Recital Attendance 0
MUS 360 Conducting II 2
MUS 228 Elementary School Music Methods 2
MUS 371 Piano Pedagogy I 3
MUS 440 Jazz Improvisation III (Course needed if student did not take MUS 138)
MUED 301 Practical Applications in Music Education 0.5
MUS 333 Functional Study (Voice) 1
MUS 119 Minor Ensembles 0.5
MUS 351 Studies in Jazz (Jazz Theory MUS 351-02) 2

Hours 17

Spring
MUS 312 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 363 Music Literature III (1800-present) 3
MUS 97 Recital Attendance 0
MUS 328 Frameworks for Teaching Music in a Diverse Society 2
MUED 302 Practical Applications in Music Education 0.5
MUS 428 Choral Techniques 2
MUS 119 Minor Ensembles 0.5
MUS 334 Functional Study (Voice) 1
MUS 351 Studies in Jazz (Jazz Style & Analysis MUS 351-01) 2
ANTH 205 Music in World Cultures - D2, SB 3

Hours 17

Year 4
Fall
MUS 411 Principal Applied Study 2
MUS 105 Jazz Applied 2
MUS 109 Major Ensembles 1
MUS 335 String Methods I 1
Supplemental Course 2
MUS 571 Pedagogy (Voice Pedagogy) 2
MUS 119 Minor Ensembles 0.5
MUS 252 Introduction to Brass 1
MUED 556 Special Methods in Secondary Teaching 2
General Education: Cardinal Core Natural Sciences - S 3
General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 17.5

Spring
MUS 106 Jazz Applied 2
MUS 109 Major Ensembles 1
Supplemental Course 2
MUS 338 Jazz Methods 2
MUS 119 Minor Ensembles 0.5
EDTP 201 The Teaching Profession - SB 3
PAS 214 African-American Music - AH, D1 3
General Education: Cardinal Core Arts & Humanities - AH 3

Hours 16

Year 5
Fall
MUS 205 Jazz Applied 2
MUS 109 Major Ensembles 1
MUS 109 Major Ensembles 1
MUS 141 Theory I 4
MUS 97 Recital Attendance 0
MUS 131 Piano Class 1
MUS 123 Diction 1
ENGL 101 Introduction to College Writing - WC 3

Hours 16

Minimum Total Hours 146

Vocal Emphasis
Course Title Hours

Year 1
Fall
MUS 100 Introduction to Music Study 1
MUS 111 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 141 Theory I 4
MUS 97 Recital Attendance 0
MUS 131 Piano Class 1
MUS 123 Diction 1
ENGL 101 Introduction to College Writing - WC 3
General Education: Cardinal Core Quantitative Reasoning - QR 3

Hours 16

Spring
MUS 112 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 142 Theory II 4
MUS 97 Recital Attendance 0
MUS 132 Piano Class 1
MUS 124 Diction 1
MUS 116 Introduction to Music Education 1
ENGL 102 Intermediate College Writing - WC 3
General Education: Cardinal Core Oral Communication - OC 3

Hours 16

Year 2
Fall
MUS 211 Principal Applied Study 2
MUS 109 Major Ensembles 1
MUS 241 Theory III 4
MUS 87 Recital Attendance 0
MUS 231 Piano Class III 1
MUS 297 Piano Proficiency 0
MUS 118 Introduction to Jazz Improvisation 1
MUS 137 Percussion Methods 1
MUS 229 Introduction to Woodwinds 1
MUS 335 String Methods I 1
MUED 201 Practical Applications in Music Education 0.5

Hours 16

Minimum Total Hours 146
ANTH 205  Music in World Cultures - D2, SB  3

Spring
MUS 212  Principal Applied Study  2
MUS 109  Major Ensembles  1
MUS 242  Theory IV  4
MUS 361  Music Literature I (1000-1750)  3
MUS 97  Recital Attendance  0
MUS 359  Conducting I  2
MUED 202  Practical Applications in Music Education  0.5
EDTP 201  The Teaching Profession - SB  3

Hours  15.5

Year 3
Fall
MUS 311  Principal Applied Study  2
MUS 109  Major Ensembles  1
MUS 362  Music Literature II (Classical & Early Romantic Music)  3
MUS 97  Recital Attendance  0
MUS 331  Piano Class  1
MUS 347  Analysis I  2
MUS 345  Orchestral Scoring or MUED 505  2
MUS 252  Introduction to Brass  1
MUS 228  Elementary School Music Methods  2
MUED 301  Practical Applications in Music Education  0.5

Hours  14.5

Spring
MUS 312  Principal Applied Study  2
MUS 109  Major Ensembles  1
MUS 97  Recital Attendance  0
MUS 363  Music Literature III (1860-present)  3
MUS 332  Piano Class  1
MUS 346  Band/Choral Scoring  2
MUS 328  Frameworks for Teaching Music in a Diverse Society  2
MUS 338  Jazz Methods  2
MUS 360  Conducting II  2
MUS 428  Orff Schulwerk: Music & Movement Education  2

Hours  17.5

Year 4
Fall
MUS 411  Principal Applied Study  2
MUS 109  Major Ensembles  1
MUS 571  Pedagogy (Voice Pedagogy)  2
MUED 556  Special Methods in Secondary Teaching  2
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH  3
General Education: Cardinal Core Natural Sciences - S  3
General Education: Cardinal Core Natural Sciences Lab - SL  1
General Elective  1

Hours  15

Spring
MUS 109  Major Ensembles  1
ECPY 507  Learning Theory and Human Growth and Development  3
EDTP 420  Reading and Writing Across the Curriculum  3
MUS 495  Senior Research Paper/Project - CUE (CUE)  0
PAS 214  African-American Music - AH, D1  3
General Education: Cardinal Core Natural Sciences - S  3

Hours  16

Minimum Total Hours  126

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

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Music General (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts with Emphasis in Music General (MUSIBA MUG)
Unit: Music (http://louisville.edu/music)

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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</table>

Hours  16

Minimum Total Hours  120

1 While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.
Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- PAS 214 African-American Music - AH, D1
- ANTH 205 Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td></td>
<td>School of Music Requirements</td>
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</tr>
<tr>
<td>MUS 141</td>
<td>Theory I (^3)</td>
<td>4</td>
</tr>
<tr>
<td>MUS 142</td>
<td>Theory II (^3)</td>
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<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
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<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
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<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles (minimum of eight 1-hour courses) (^4)</td>
<td>8</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
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<tr>
<td>MUS 125</td>
<td>Arts Instrument (^5,6)</td>
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<td>MUS 126</td>
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<td>MUS 226</td>
<td>Arts Instrument (^5,6)</td>
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<tr>
<td>MUS 131</td>
<td>Piano Class (^6,7)</td>
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<tr>
<td>MUS 132</td>
<td>Piano Class (^6,7)</td>
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<tr>
<td>MUS 347</td>
<td>Analysis I (Course based on BA emphasis) (^10)</td>
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<tr>
<td>or MUS 242</td>
<td>Theory IV</td>
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<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
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<tr>
<td>MUS 197</td>
<td>Piano Proficiency</td>
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Minimum Total Hours: 38-40

Program/Major Requirements

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<td>Major Courses</td>
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<td></td>
<td>Music Electives (^8)</td>
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<td>Music or General Electives</td>
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<tr>
<td>MUS 496</td>
<td>BA Capstone Project (CUE)</td>
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<tr>
<td></td>
<td>General Electives (^9)</td>
<td>34</td>
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Minimum Total Hours: 49-51

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 Analysis I for BA General, MUS 349 Jazz Analysis for BA Jazz Studies, MUS 350 Analysis of Electronic Media for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional Gen Ed courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project</td>
<td></td>
</tr>
</tbody>
</table>

1. Students are required to take PAS 214 and ANTH 205 Music in World Cultures - D2, SB.
2. MUH courses may not be taken to fulfill any General Education requirement.
3. Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141 Theory I. Students who do not pass Theory I, and students who enter the School of Music in January and do not place into MUS 142 Theory II, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.
4. Strings take section 01, others solely dependent on the ensemble audition.
5. The Piano Proficiency Examination is required for applied piano and organ majors.
6. If the applied area is piano or organ, Piano Class is replaced with 2 hours of music electives. The Piano Proficiency Examination may be taken in lieu of two semesters of Piano Class.
7. Students must pass the complete Piano Proficiency Examination before receiving credit for the final semester of the piano requirement. Students must be enrolled continuously in Piano Class until their piano requirement has been completed. Those who pass the Piano Proficiency Exam before the end of the second semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits.
8. 12 hours of music electives if MUS 242 Theory IV is chosen; 14 hours of music electives if MUS 347 Analysis I is chosen.
9. Non-music electives which include 18 hours in one area of concentration. At least 9 hours in the area of concentration, and a total of 12 of the 34 hours, must be at the 300-level or above. The student may choose to pursue a second major or take a minor in a non-music area.
# Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
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<td>MUS 125</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
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<tr>
<td>MUS 97</td>
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<tr>
<td>MUS 131</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>MUS 126</td>
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<td>MUS 142</td>
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<td><strong>Year 2</strong></td>
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<td>MUS 241</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>MUS 226</td>
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<td>MUS 242</td>
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<td>MUS 242</td>
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<td>Recital Attendance</td>
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<td>Music Elective</td>
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<td>Non-Music Elective in chosen concentration</td>
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<td>Non-Music Elective in any other discipline</td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
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<td>MUS 97</td>
<td>Recital Attendance</td>
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<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<td>MUS 347</td>
<td>Analysis I (not required if student completed MUS 242 in Spring, Year 2)</td>
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<td>Non-Music Elective in chosen concentration</td>
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<td>Non-Music Elective in any other discipline</td>
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<td><strong>Hours</strong></td>
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Music History (BM)

Music with Emphasis in Music History (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Music with Emphasis in Music History (MUSIBM MH)

Unit: Music (http://www.louisville.edu/music)

Program Information

The School of Music offers the Bachelor of Music and the Master of Music degrees in Music History.

The music history faculty at the University of Louisville represent a wide range of teaching and research disciplines. Part-time faculty bring expertise in cognate areas such as popular music, country music, history of rock and roll, world music, dance music, and music of the theater.

Undergraduate music history majors complete a senior research project under faculty supervision, concluding with a formal presentation and discussion with the panel of music history faculty. Graduate students in music history undertake a series of seminars and complete a thesis under faculty supervision, as well as satisfy a foreign language requirement and a final oral examination.

Past graduates in music history from the University of Louisville have made careers as musicologists, music librarians, arts administrators, and music critics.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td>undergraduate/general-education-requirements) 1</td>
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<td>42</td>
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<tr>
<td></td>
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</table>

1 While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>undergraduate/general-education-requirements) 1,2</td>
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<td>The following courses are required by this program and should be</td>
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<tr>
<td></td>
<td>used to fulfill the respective General Education Requirement:</td>
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<tr>
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<td>PAS 214 African-American Music - AH, D1</td>
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<tr>
<td></td>
<td>ANTH 205 Music in World Cultures - D2, SB</td>
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</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
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<td>MUS 142</td>
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<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
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<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<td>Music Literature III (1860-present)</td>
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<td>MUS 109</td>
<td>Major Ensembles (eight 1-hour courses) 4</td>
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<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
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<td>MUS 131</td>
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<td>MUS 132</td>
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<tr>
<td>MUS 347</td>
<td>Analysis I</td>
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<tr>
<td>MUS 111</td>
<td>Principal Applied Study 7</td>
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<td>MUS 112</td>
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<td>MUS 211</td>
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<td>MUS 212</td>
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Minimum Total Hours 47

Program/Major Requirements

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<tr>
<td>MUS 499</td>
<td>Senior Research Paper/Project - CUE (CUE) 8</td>
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Supporting Courses

<table>
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<tr>
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<tbody>
<tr>
<td>MUS 348</td>
<td>Analysis II</td>
<td>2</td>
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</table>

Advanced Theory
Select one of the following sequences:

**Sequence One:**
- MUS 145 Secondary Composition
- MUS 146 Secondary Composition

**Sequence Two:**
- MUS 345 Orchestral Scoring
- MUS 346 Band/Choral Scoring

**Sequence Three:**
- MUS 547 Chromatic Harmony and Analysis
- MUS 548 Post-Tonal Theory and Analysis
- MUS 549 Renaissance Counterpoint
- MUS 550 Baroque Counterpoint
- MUS 359 Conducting I
- MUS 311 Principal Applied Study
- MUS 312 Principal Applied Study
- MUS 411 Principal Applied Study
- MUS 412 Principal Applied Study
- GERM 121 Basic German I

**General or Music Electives**

Minimum Total Hours 42

**Upper Division Assessment**

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies, MUS 350 for BA Music & New Media); MUS 361 Music Literature I; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional Gen Ed courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 499</td>
<td>Senior Research Paper/Project - CUE</td>
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</table>

1. Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB.
2. MUH courses may not be taken to fulfill any General Education requirement.

3. Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141 Theory I. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.

4. Strings take section 01, others solely dependent on the ensemble audition.

5. If the applied principal is piano, Piano Class is replaced with 3 hours of music electives. For students with a piano background, three semesters of Secondary Piano (MUS 121-MUS 221) may be substituted for Piano Class.

6. Students will take the Piano Proficiency Examination at the end of MUS 231. Any student not completing the Piano Proficiency Examination will be required to take MUS 232 until the proficiency exam requirement is completed. Students must be enrolled continuously in Piano Class until their requirement has been completed. Those who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits. Entering students who have a background in piano may register for MUS 297 Piano Proficiency for one semester with approval of the Keyboard Area.

7. If the applied principal is voice, 2 hours of Diction (MUS 123-MUS 124) are required in addition to the 16 hours of voice.

8. Students may enroll for either 2 semesters at 2 credits per semester or 1 semester at 4 credits.

9. Electives to be determined in consultation with the program advisor. Students are strongly encouraged to include 1 credit hour of minor ensemble where appropriate.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 100</td>
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<td>2</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>4</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
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<tr>
<td>MUS 131</td>
<td>Piano Class (or Music Elective)</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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**Year 2**

**Fall**
- MUS 211 Principal Applied Study
- MUS 109 Major Ensembles
- MUS 241 Theory III
- MUS 97 Recital Attendance

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 112</td>
<td>Principal Applied Study</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 142</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Piano Class (or Music Elective)</td>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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**Spring**
- MUS 211 Principal Applied Study
- MUS 109 Major Ensembles
- MUS 241 Theory III
- MUS 97 Recital Attendance

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>Major Ensembles</td>
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<td>MUS 142</td>
<td>Theory II</td>
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<td>MUS 97</td>
<td>Recital Attendance</td>
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<td>Code</td>
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<tr>
<td>MUS 231</td>
<td>Piano Class III (or Music Elective)</td>
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<td>MUS 297</td>
<td>Piano Proficiency</td>
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<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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**Hours** 15

### Year 3

#### Fall

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<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
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<tr>
<td>MUS 347</td>
<td>Analysis I</td>
<td>2</td>
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<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
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<td>MUS 370</td>
<td>Seminar in Music History</td>
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<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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**Hours** 14

#### Spring

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<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 348</td>
<td>Analysis II</td>
<td>2</td>
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<td>MUS 550</td>
<td>Baroque Counterpoint</td>
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**Hours** 16

### Year 4

#### Fall

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<td>MUS 370</td>
<td>Seminar in Music History</td>
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<td>Advanced Theory course from specific list</td>
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<tr>
<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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**Hours** 16

#### Spring

<table>
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<tr>
<td></td>
<td>Advanced Theory course from specific list</td>
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<td>MUS 370</td>
<td>Seminar in Music History</td>
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<td>MUS 499</td>
<td>Senior Research Paper/Project - CUE (CUE)</td>
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<tr>
<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
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</table>

**Hours** 15

**Minimum Total Hours** 120

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

### To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. ([https://ulink.louisville.edu](https://ulink.louisville.edu))

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**Music Instrumental Performance (BM)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Music with Emphasis in Instrumental Performance (MUSIBM INS)**

Unit: Music ([http://www.louisville.edu/music](http://www.louisville.edu/music))

### Program Information

The Bachelor of Music in Performance degree is appropriate for students who wish to prepare for a career in music performance and related fields. Among the particular career emphases for which the BM in Performance is an appropriate preparation are professional performer, university teacher, private music studio teacher, or pre-professional preparation for music teacher certification study. Since it is unlikely that graduates of the program will have developed all the requisite skills to enter the professional ranks of performers or university teachers, most graduates will continue to develop their skills through further study. Students who have completed the BM in Performance at UofL typically do very well in gaining admission to strong graduate programs nationwide.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
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</tr>
<tr>
<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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<td>Minimum Total Hours</td>
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</table>

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While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements
Students in this unit are admitted directly into their degree program.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- **PAS 214** African-American Music - AH, D1
- **ANTH 205** Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td></td>
<td>School of Music Requirements</td>
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<tr>
<td><strong>MUS 141</strong></td>
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<tr>
<td><strong>MUS 142</strong></td>
<td>Theory II ³</td>
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</tr>
<tr>
<td><strong>MUS 241</strong></td>
<td>Theory III</td>
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<tr>
<td><strong>MUS 361</strong></td>
<td>Music Literature I (1000-1750)</td>
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<td><strong>MUS 362</strong></td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<td><strong>MUS 363</strong></td>
<td>Music Literature III (1860-present)</td>
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<td><strong>MUS 109</strong></td>
<td>Major Ensembles (eight 1-hour courses) ⁴</td>
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<td><strong>MUS 97</strong></td>
<td>Recital Attendance (six semesters of “S”)</td>
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<tr>
<td><strong>MUS 131</strong></td>
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<td><strong>MUS 132</strong></td>
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<td><strong>MUS 231</strong></td>
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<td><strong>MUS 347</strong></td>
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<td><strong>MUS 103</strong></td>
<td>Major Applied Study</td>
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<td><strong>MUS 104</strong></td>
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<td>Piano Proficiency</td>
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### Program/Major Requirements

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<th>Hours</th>
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<tr>
<td><strong>MUS 204</strong></td>
<td>Major Applied Study ⁷</td>
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</tr>
<tr>
<td><strong>MUS 303</strong></td>
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**Instrumental Performance Requirements**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MUS 304</strong></td>
<td>Major Applied Study ⁷</td>
<td>4</td>
</tr>
<tr>
<td><strong>MUS 403</strong></td>
<td>Major Applied Study ⁷</td>
<td>4</td>
</tr>
<tr>
<td><strong>MUS 404</strong></td>
<td>Major Applied Study ⁷</td>
<td>4</td>
</tr>
<tr>
<td><strong>MUS 119</strong></td>
<td>Minor Ensembles (eight 1/2-hour courses) ⁸</td>
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</tr>
<tr>
<td><strong>MUS 538</strong></td>
<td>Studies in Pedagogy (Instrument Specific)</td>
<td>1</td>
</tr>
<tr>
<td><strong>MUS 563</strong></td>
<td>Literature (Instrument Specific)</td>
<td>1</td>
</tr>
<tr>
<td><strong>MUS 397</strong></td>
<td>Junior Recital ⁹</td>
<td>0</td>
</tr>
<tr>
<td><strong>MUS 497</strong></td>
<td>Senior Recital - CUE (CUE) ⁹</td>
<td>0</td>
</tr>
</tbody>
</table>

### Supporting Courses

**Advanced Theory**

Select one of the following:

- **MUS 348** Analysis II
- **MUS 145** Secondary Composition
- **MUS 146** Secondary Composition
- **MUS 345** Orchestral Scoring
- **MUS 346** Band/Choral Scoring
- **MUS 547** Chromatic Harmony and Analysis
- **MUS 548** Post-Tonal Theory and Analysis
- **MUS 549** Renaissance Counterpoint
- **MUS 550** Baroque Counterpoint
- **MUS 359** Conducting I
- **Music Electives**
- **General Electives**
- **General or Music Electives**

**Minimum Total Hours**

### Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for **MUS 242 Theory IV or Analysis** (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional General Education courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MUS 497</strong></td>
<td>Senior Recital - CUE</td>
<td>0</td>
</tr>
</tbody>
</table>

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing:

- **MUS 497** Senior Recital - CUE

1 Students are required to take PAS 214 and ANTH 205.
2 MUH courses may not be taken to fulfill any General Education requirement.
Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.

Strings take section 01, others solely dependent on the ensemble audition.

For students with a piano background, three semesters of Secondary Piano (MUS 121-MUS 221) may be substituted.

Students must be enrolled continuously in Piano Class until their piano requirement has been completed. Those students who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits. Entering students who have a background in piano may register for MUS 297 Piano Proficiency for one semester with approval of the Keyboard Area.

Woodwind option: Students with a major in flute, oboe, clarinet, bassoon, or saxophone may devote as many as 14 of the 32 hours required in the major instrument to the study of other woodwind instruments. After completing one semester of study in the major instrument with a grade of A or B, the student may elect the above option with the approval of the woodwind faculty. Continued enrollment in the option will be dependent upon satisfactory progress in the major instrument studied. An outline of the applied music study must be approved by the teacher of the major instrument. One-half of the senior recital may consist of solo or ensemble performance of one or more secondary instruments.

Students must be enrolled in Minor Ensemble for a minimum of six semesters. The applied teacher must approve the choice of Minor Ensembles that will count towards the degree.

Minor Ensembles

Piano Class

Recital Attendance

Major Ensembles

Major Applied Study

Hours

14.5

Spring

MUS 304 Major Applied Study 4
MUS 109 Major Ensembles 1
MUS 363 Music Literature III (1860-present) 3
MUS 97 Recital Attendance 0
MUS 119 Minor Ensembles 0.5
PAS 214 African-American Music - AH, D1 3
MUS 397 Junior Recital 0
Music Elective 1
General Education: Cardinal Core Natural Sciences - S 3
General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 14.5

Year 4

Fall

MUS 403 Major Applied Study 4
MUS 109 Major Ensembles 1
Advanced Theory course from specific list 2
MUS 538 Studies in Pedagogy 1
MUS 563 Literature 1
MUS 119 Minor Ensembles 0.5
General Electives 3
General Education: Cardinal Core Arts & Humanities - AH 3

Hours 15.5

Spring

MUS 404 Major Applied Study 4
MUS 109 Major Ensembles 1
MUS 119 Minor Ensembles 0.5
MUS 497 Senior Recital - CUE 0
Music Elective 1
ANTH 205 Music in World Cultures - D2, SB 3

Hours 16.5
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Music Jazz Performance (BM)

Music with Emphasis in Jazz Performance (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Music with Emphasis in Jazz Performance (MUSIBM JAZ)

Unit: Music (http://www.louisville.edu/music)

Program Information

The Bachelor of Music in Jazz Performance degree is appropriate for students who wish to prepare for a career in music performance and related fields. The Bachelor of Music degree with an Emphasis in Jazz Performance is intended to prepare students with the skills needed to perform, compose and arrange within the jazz idiom. Among the goals of the degree are to prepare students to be skilled in the art of jazz improvisation, be well versed in a variety of performance techniques, be able to compose and arrange within the jazz idiom, and to have an understanding and appreciation of the jazz tradition through the study of and performance with jazz masters. Among the particular career emphases for which the BM in Jazz Performance is an appropriate preparation are professional performer, music arranger or composer, or teacher. Since it is unlikely that graduates of the program will have developed all the requisite skills to enter the professional ranks of performers or university teachers, most graduates will continue to develop their skills through additional study.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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<tr>
<td>Minimum Total Hours</td>
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</table>

1. While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>The following courses are required by this program and should be used to fulfill the respective General Education Requirement:</td>
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<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
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<tr>
<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
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</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

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<td>MUS 142</td>
<td>Theory II</td>
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<tr>
<td>MUS 241</td>
<td>Theory III</td>
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<td>MUS 242</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles (eight 1-hour courses)</td>
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<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>3</td>
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<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
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<tr>
<td>MUS 131</td>
<td>Piano Class</td>
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<tr>
<td>MUS 132</td>
<td>Piano Class</td>
<td>1</td>
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<td>MUS 349</td>
<td>Jazz Analysis</td>
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Program/Major Requirements

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<td>MUS 106</td>
<td>Jazz Applied</td>
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<td>MUS 205</td>
<td>Jazz Applied</td>
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<td>MUS 206</td>
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</tr>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
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<tr>
<td>MUS 197</td>
<td>Piano Proficiency</td>
<td>0</td>
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</table>

Minimum Total Hours 46

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105, and 3 additional General Education courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

Flight Plan

<table>
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<tr>
<th>Course</th>
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<tr>
<td>Fall</td>
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<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
</tr>
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<td>MUS 105</td>
<td>Jazz Applied</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
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<td>MUS 131</td>
<td>Piano Class (or Music Elective)</td>
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<td>MUS 119</td>
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<tr>
<td>ENGL 101</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>Spring</td>
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<tr>
<td>MUS 106</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<tr>
<td>MUS 142</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
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University of Louisville
<table>
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<tr>
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<td>MUS 132</td>
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<td>MUS 119</td>
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<td>Piano Proficiency</td>
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<td>MUS 138</td>
<td>Jazz Improvisation</td>
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<td>ENGL 102</td>
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<table>
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<tr>
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<tr>
<td>MUS 205</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles</td>
<td>0.5</td>
</tr>
<tr>
<td>MUS 130</td>
<td>Jazz Piano Class</td>
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<tr>
<td>MUS 340</td>
<td>Jazz Improvisation II</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<tr>
<td></td>
<td>Elective</td>
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<td></td>
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<td>14.5</td>
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<tr>
<td>MUS 206</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<td>MUS 242</td>
<td>Theory IV</td>
<td>4</td>
</tr>
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<td>MUS 349</td>
<td>Jazz Analysis</td>
<td>2</td>
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<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
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<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
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<td>MUS 119</td>
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<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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</table>

|                | **Year 3**                                       | 15.5   |
|                | **Fall**                                         |        |
| MUS 305        | Jazz Applied                                     | 2      |
| MUS 109        | Major Ensembles                                  | 1      |
| MUS 362        | Music Literature II (Classical & Early Romantic Music) | 3   |
| MUS 97         | Recital Attendance (MUS 97-06)                   | 0      |
| MUS 119        | Minor Ensembles                                  | 0.5    |
| MUS 440        | Jazz Improvisation II                            | 2      |
| MUS 351        | Studies in Jazz (MUS 351-02 Jazz Theory)         | 2      |
| MUS 435        | Jazz Arranging I                                 | 2      |
| MUS 355        | The Evolution of Jazz                            | 3      |
|                | **Spring**                                       | 15.5   |
| MUS 306        | Jazz Applied                                     | 2      |
| MUS 109        | Major Ensembles                                  | 1      |
| MUS 97         | Recital Attendance (MUS 97-06)                   | 0      |
| MUS 363        | Music Literature III (1860-present)              | 3      |
| MUS 119        | Minor Ensembles                                  | 0.5    |
| MUS 351        | Studies in Jazz (MUS 351-01 Jazz Style & Analysis) | 2   |
| MUS 436        | Jazz Arranging II                                | 2      |
|                | General Education: Cardinal Core Natural Sciences - S | 3       |
|                | General Education: Cardinal Core Natural Sciences Lab - SL | 1       |
|                | Elective                                         | 1      |
|                | **Year 4**                                       | 15.5   |
|                | **Fall**                                         |        |
| MUS 405        | Jazz Applied                                     | 2      |
| MUS 109        | Major Ensembles                                  | 1      |
| MUS 119        | Minor Ensembles                                  | 0.5    |
|                | Advanced Theory Course from specified list       | 2      |
| MUS 352        | Jazz Repertoire                                  | 2      

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. ([https://ulink.louisville.edu](https://ulink.louisville.edu))

**Music, Jazz Studies (BA)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts with Emphasis in Jazz Studies (MUSIBA JAZ)**

Unit: Music ([http://www.louisville.edu/music](http://www.louisville.edu/music))

**Program Information**

The Bachelor of Arts in Music with Emphasis in Jazz Studies degree is aimed at introducing students to elements of jazz within the context of
a liberal arts program. The outcome of the degree is to prepare students to develop skills in performing and improvising music in a variety of jazz styles on primary and secondary instruments, and to have an understanding of a variety of performance techniques in jazz, and an appreciation of the jazz tradition through the study of and performance with jazz masters.

**Degree Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
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<tr>
<td></td>
<td>College/School Requirements</td>
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<td></td>
<td>Program/Major Requirements</td>
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<tr>
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<td>Minimum Total Hours</td>
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</table>

- While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

**Departmental Admission Requirements**

Students in this unit are admitted directly into their degree program.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
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<td></td>
<td>General Education Requirements</td>
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<tr>
<td></td>
<td>The following courses are required by this program and should be used to fulfill the respective General Education Requirement:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PAS 214 African-American Music - AH, D1</td>
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<tr>
<td></td>
<td>ANTH 205 Music in World Cultures - D2, SB</td>
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</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
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<td>MUS 142</td>
<td>Theory II</td>
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<td>MUS 241</td>
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<tr>
<td>MUS 349</td>
<td>Jazz Analysis</td>
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<tr>
<td>or MUS 242</td>
<td>Theory IV</td>
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<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
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<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (minimum of eight 1-hour courses)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 105</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td></td>
<td>MUS 106 Jazz Applied</td>
<td>2</td>
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<tr>
<td></td>
<td>MUS 131 Piano Class</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUS 132 Piano Class</td>
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<tr>
<td></td>
<td>MUS 100 Introduction to Music Study</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUS 197 Piano Proficiency</td>
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Minimum Total Hours: 38-40

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MUS 138</td>
<td>Jazz Improvisation</td>
<td>2</td>
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<tr>
<td>MUS 340</td>
<td>Jazz Improvisation II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style &amp; Analysis)</td>
<td>2-3</td>
</tr>
<tr>
<td>or MUS 355</td>
<td>The Evolution of Jazz</td>
<td></td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-02 Jazz Theory)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 205</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
<tr>
<td>MUS 206</td>
<td>Jazz Applied</td>
<td>2</td>
</tr>
<tr>
<td>MUS 130</td>
<td>Jazz Piano Class</td>
<td>1</td>
</tr>
<tr>
<td>MUS 198</td>
<td>Jazz Piano Proficiency</td>
<td>0</td>
</tr>
<tr>
<td>Music Electives</td>
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<tr>
<td></td>
<td>General or Music Electives</td>
<td>3</td>
</tr>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project (CUE)</td>
<td>0</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>31</td>
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</tbody>
</table>

Minimum Total Hours: 49-51

**Upper Division Assessment**

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. The elements and standards of the review are established by the faculty and include credit for MUS 242 or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361 ; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 , with grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional General Education courses.

**Additional Requirements**

- Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project</td>
<td></td>
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</table>

1. Students are required to take PAS 214 and ANTH 205.
2. MUH courses may not be taken to fulfill any General Education requirement.
### Flight Plan

**Students matriculating in even-numbered years:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Year 1</th>
<th>Hours</th>
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<tbody>
<tr>
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<tr>
<td>Fall</td>
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</tr>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td></td>
<td>1</td>
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<tr>
<td>MUS 105</td>
<td>Jazz Applied</td>
<td></td>
<td>2</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td></td>
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</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td></td>
<td>4</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
<td></td>
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</tr>
<tr>
<td>MUS 131</td>
<td>Piano Class (or Music Elective)</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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<td>Spring</td>
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<tr>
<td>MUS 142</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
<td></td>
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<tr>
<td>MUS 132</td>
<td>Piano Class (or Music Elective)</td>
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<tr>
<td>MUS 197</td>
<td>Piano Proficiency</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>MUS 138</td>
<td>Jazz Improvisation</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td>Year 2</td>
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<td>Fall</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<tr>
<td>MUS 241</td>
<td>Theory III</td>
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<td>4</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-06)</td>
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<tr>
<td>MUS 340</td>
<td>Jazz Improvisation II</td>
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<td>MUS 130</td>
<td>Jazz Piano Class</td>
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<td>MUS 198</td>
<td>Jazz Piano Proficiency</td>
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<tr>
<td></td>
<td>Non-Music Elective in chosen concentration</td>
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<td>Minimum Total Hours</td>
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### General Education

<table>
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<tr>
<th>Category</th>
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<tbody>
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<td>Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<td>Cardinal Core Natural Sciences - S</td>
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<td></td>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<td>Non-Music Elective in any discipline</td>
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<tr>
<td></td>
<td>Non-Music Elective in any discipline (300 level or above)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Music Elective in chosen concentration (300 level or above)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Degree Audit Report

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**University of Louisville**
To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. ([https://ulink.louisville.edu](https://ulink.louisville.edu))

**Music Organ Performance (BM)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Music with Emphasis in Organ Performance (MUSIBM ORG)**

Unit: Music ([http://www.louisville.edu/music](http://www.louisville.edu/music))

**Program Information**

The Bachelor of Music in Performance degree is appropriate for students who wish to prepare for a career in music performance and related fields. Among the particular career emphases for which the BM in Performance is an appropriate preparation are professional performer, university teacher, private music studio teacher, or pre-professional preparation for music teacher certification study. Since it is unlikely that graduates of the program will have developed all the requisite skills to enter the professional ranks of performers or university teachers, most graduates will continue to develop their skills through further study.

The 560-seat Margaret Comstock Concert Hall at UofL houses three Steinway and a Bösendorfer “Imperial” concert grand pianos as well as a 64-rank Steiner-Reck organ, the largest of its kind in the Midwest. Also available to students are a number of practice organs.

**Degree Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<tr>
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<td>Program/Major Requirements</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
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</tbody>
</table>

While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

**Departmental Admission Requirements**

Students in this unit are admitted directly into their degree program.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<tr>
<td></td>
<td>The following courses are required by this program and should be used to fulfill the respective General Education Requirement:</td>
<td></td>
</tr>
<tr>
<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
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<tr>
<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
<td></td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>School of Music Requirements</td>
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<tr>
<td>MUS 141</td>
<td>Theory I</td>
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<tr>
<td>MUS 142</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 242</td>
<td>Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (eight 1-hour courses)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
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<tr>
<td>MUS 347</td>
<td>Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 103</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 104</td>
<td>Major Applied Study</td>
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</tr>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
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**Program/Major Requirements**

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<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Organ Performance Requirements</td>
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</tr>
<tr>
<td>MUS 203</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 204</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 303</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 304</td>
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<tr>
<td>MUS 403</td>
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<tr>
<td>MUS 404</td>
<td>Major Applied Study</td>
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</tbody>
</table>
University of Louisville

MUS 265  Service Playing I  2
MUS 266  Service Playing II  2
MUS 561  Literature (Organ Literature I)  2
MUS 562  Literature (Organ Literature II)  2
MUS 571  Pedagogy (Organ Pedagogy)  2
MUS 497  Senior Recital - CUE (CUE)  0

Supporting Courses

Advanced Theory
Select two 2-hour courses from the following:  4
MUS 348  Analysis II
MUS 547  Chromatic Harmony and Analysis
MUS 548  Post-Tonal Theory and Analysis
MUS 549  Renaissance Counterpoint
MUS 550  Baroque Counterpoint
MUS 121  Secondary Applied Study (Piano)  1
MUS 122  Secondary Applied Study (Piano)  1
MUS 221  Secondary Applied Study (Piano)  1
MUS 359  Conducting I  2
Electives (General or Music)  2
Minimum Total Hours  45

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105, and 3 additional Gen Ed courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

Code Title Hours

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing:
MUS 497  Senior Recital - CUE (CUE)  5

1 Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB.
2 MUH courses may not be taken to fulfill any General Education requirement.

3 Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.
4 Solely dependent on the ensemble audition.
5 Senior recital for all performance degrees is a public recital.

Flight Plan

Course Plan

Course Title Hours
Year 1
Fall
MUS 100  Introduction to Music Study  1
MUS 103  Major Applied Study  4
MUS 109  Major Ensembles  1
MUS 141  Theory I  4
MUS 97  Recital Attendance (MUS 97-01)  0
ENGL 101  Introduction to College Writing - WC  3
General Education: Cardinal Core Quantitative Reasoning - QR  3
Hours  16

Spring
MUS 104  Major Applied Study  4
MUS 109  Major Ensembles  1
MUS 142  Theory II  4
MUS 97  Recital Attendance (MUS 97-01)  0
ENGL 102  Intermediate College Writing - WC  3
General Education: Cardinal Core Natural Sciences with Lab - B  4
Hours  16

Year 2
Fall
MUS 203  Major Applied Study  4
MUS 109  Major Ensembles  1
MUS 241  Theory III  4
MUS 97  Recital Attendance (MUS 97-01)  0
MUS 121  Secondary Applied Study (Piano)  1
General Education: Cardinal Core Oral Communication - OC  3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH  3
Hours  16

Spring
MUS 204  Major Applied Study  4
MUS 109  Major Ensembles  1
MUS 242  Theory IV  4
MUS 361  Music Literature I (1000-1750)  3
MUS 359  Conducting I  2
MUS 97  Recital Attendance (MUS 97-01)  0
MUS 122  Secondary Applied Study (Piano)  1
MUS 297  Piano Proficiency  0
Hours  15

Year 3
Fall
MUS 303  Major Applied Study  4
MUS 109  Major Ensembles  1
MUS 347  Analysis I  2
MUS 97  Recital Attendance (MUS 97-01)  0
MUS 362  Music Literature II (Classical & Early Romantic Music)  3
MUS 265  Service Playing I  2
MUS 561  Literature (MUS 561-03)  2
### Music Piano Performance (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

#### Bachelor of Music with Emphasis in Piano Performance (MUSIBM PNO)

Bachelor of Music with Emphasis in Piano Performance with Track in Piano Pedagogy (MUSIBM PDG)

Unit: Music (http://www.louisville.edu/music)

### Program Information

The Bachelor of Music in Performance degree is appropriate for students who wish to prepare for a career in music performance and related fields. Among the particular career emphases for which the BM in Performance is an appropriate preparation are professional performer, university teacher, private music studio teacher, or pre-professional preparation for music teacher certification study. Since it is unlikely that graduates of the program will have developed all the requisite skills to enter the professional ranks of performers or university teachers, most graduates will continue to develop their skills through further study.

The School of Music building contains two recital halls, a 15,000 square foot music library, forty-four teaching studios, and seventy-six practice rooms, many of them with Steinway grand pianos reserved exclusively for piano majors.

### Degree Summary

#### Emphasis in Piano Performance

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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#### Emphasis in Piano Performance with Track in Piano Pedagogy

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<th>Code</th>
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<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements. Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Students in this unit are admitted directly into their degree program.

Program Requirements

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements [1,2]</td>
<td>31</td>
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</tbody>
</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- PAS 214  African-American Music - AH, D1
- ANTH 205  Music in World Cultures - D2, SB

Minimum Total Hours: 31

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
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<th>Hours</th>
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<tr>
<td></td>
<td>School of Music Program Courses [3]</td>
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<tr>
<td>MUS 141</td>
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<tr>
<td>MUS 142</td>
<td>Theory II</td>
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</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td></td>
</tr>
<tr>
<td>MUS 242</td>
<td>Theory IV</td>
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<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td></td>
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<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td></td>
</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principal Ensemble (eight 1-hour courses) [4]</td>
<td>8</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td></td>
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<tr>
<td>MUS 103</td>
<td>Major Applied Study</td>
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<tr>
<td>&amp; MUS 104</td>
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</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>MUS 101</td>
<td>Major Applied Study</td>
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<tr>
<td>&amp; MUS 102</td>
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<tr>
<td>&amp; MUS 201</td>
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<tr>
<td>&amp; MUS 202</td>
<td>Major Applied Study</td>
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</tr>
<tr>
<td>MUS 347</td>
<td>Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
</tr>
<tr>
<td>MUS 297</td>
<td>Piano Proficiency</td>
<td>0</td>
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</tbody>
</table>

Minimum Total Hours: 44

Program/Major Requirements

Piano Performance

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Plan Courses: Piano Performance</td>
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<tr>
<td>MUS 203</td>
<td>Major Applied Study</td>
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<td>MUS 204</td>
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<td></td>
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<tr>
<td>MUS 303</td>
<td>Major Applied Study</td>
<td></td>
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<td>MUS 304</td>
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<td>MUS 403</td>
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</tr>
<tr>
<td>MUS 404</td>
<td>Major Applied Study</td>
<td></td>
</tr>
<tr>
<td>MUS 561</td>
<td>Literature (Piano Literature I)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 562</td>
<td>Literature (Piano Literature II)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Piano Ensemble; six half-hour courses)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 371</td>
<td>Piano Pedagogy I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 372</td>
<td>Piano Pedagogy II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 397</td>
<td>Junior Recital</td>
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<tr>
<td>MUS 497</td>
<td>Senior Recital - CUE (CUE)</td>
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Supporting Courses: Piano Performance

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<th>Code</th>
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<tr>
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<tr>
<td>MUS 348</td>
<td>Analysis II</td>
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<tr>
<td>MUS 547</td>
<td>Chromatic Harmony and Analysis</td>
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</tr>
<tr>
<td>MUS 548</td>
<td>Post-Tonal Theory and Analysis</td>
<td></td>
</tr>
<tr>
<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
<td></td>
</tr>
<tr>
<td>MUS 550</td>
<td>Baroque Counterpoint</td>
<td></td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Electives (General or Music)</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 47

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 or Analysis (MUS 347 for BA, General; MUS 349 for BA General, Jazz Studies; MUS 350 for BA, Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional General Education courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree
Program/Major Requirements
Piano Performance with a Track in Piano Pedagogy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 301</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 302</td>
<td>Major Applied Study</td>
<td>1</td>
</tr>
<tr>
<td>MUS 413</td>
<td>Principal Applied Study</td>
<td>3</td>
</tr>
<tr>
<td>MUS 414</td>
<td>Principal Applied Study</td>
<td>3</td>
</tr>
<tr>
<td>MUS 561</td>
<td>Literature (Piano Literature I)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 562</td>
<td>Literature (Piano Literature II)</td>
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<td>MUS 371</td>
<td>Piano Pedagogy I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 372</td>
<td>Piano Pedagogy II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 471</td>
<td>Piano Pedagogy III</td>
<td>3</td>
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<tr>
<td>MUS 472</td>
<td>Piano Pedagogy IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 475</td>
<td>Pedagogy Practicum I</td>
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<tr>
<td>MUS 476</td>
<td>Pedagogy Practicum II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 497</td>
<td>Senior Recital - CUE (CUE)</td>
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</table>

Supporting Courses: Piano Pedagogy Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 348</td>
<td>Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 547</td>
<td>Chromatic Harmony and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 548</td>
<td>Post-Tonal Theory and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 550</td>
<td>Baroque Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Piano Ensemble; six 1/2-hour courses)</td>
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Electives (General or Music)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 100</td>
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<td>MUS 103</td>
<td>Major Applied Study</td>
<td>4</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-01)</td>
<td>0</td>
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<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Piano Ensemble)</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Introduction to College Writing - WC</td>
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</tbody>
</table>

Upper Division Assessment

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Flight Plan

Piano Performance

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
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<tr>
<td>MUS 103</td>
<td>Major Applied Study</td>
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</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-01)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (Piano Ensemble)</td>
<td>0.5</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Introduction to College Writing - WC</td>
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General Education: Cardinal Core Quantitative Reasoning - QR | Hours |
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<tr>
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Spring

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<tr>
<td>MUS 104</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
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</tr>
<tr>
<td>MUS 142</td>
<td>Theory II</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-01)</td>
<td>0</td>
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<td>MUS 119</td>
<td>Minor Ensembles (Piano Ensemble)</td>
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<td>Intermediate College Writing - WC</td>
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General Education: Cardinal Core Natural Sciences - S | Hours |
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<tbody>
<tr>
<td>ENGL 102</td>
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</table>
University of Louisville

General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 16.5

Year 2

Fall
MUS 203 Major Applied Study 4
MUS 109 Major Ensembles 1
MUS 241 Theory III 4
MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

General or Music Elective 1

General Education: Cardinal Core Oral Communication - OC 3

General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3

Hours 16.5

Spring
MUS 204 Major Applied Study 4
MUS 297 Piano Proficiency 0
MUS 109 Major Ensembles 1
MUS 242 Theory IV 4
MUS 361 Music Literature I (1000-1750) 3
MUS 359 Conducting I 2
MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

General Elective 1

Hours 15.5

Year 3

Fall
MUS 303 Major Applied Study 4
MUS 109 Major Ensembles 1
MUS 347 Analysis I 2
MUS 97 Recital Attendance (MUS 97-01) 0
MUS 362 Music Literature II (Classical & Early Romantic Music) 3
MUS 371 Piano Pedagogy I 3
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

General or Music Elective 1

Hours 14.5

Spring
MUS 304 Major Applied Study 4
MUS 109 Major Ensembles 1
MUS 363 Music Literature III (1800-present) 3
MUS 372 Piano Pedagogy II 3
MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5
MUS 397 Junior Recital 0
ANTH 205 Music in World Cultures - D2, SB 3

Hours 14.5

Year 4

Fall
MUS 403 Major Applied Study 4
MUS 109 Major Ensembles 1
Advanced Theory Course from specified list 2
MUS 561 Literature (Piano Literature I) 2

General Education: Cardinal Core Arts & Humanities - AH 3

General Education: Cardinal Core Natural Sciences - S 3

General or Music Elective 1

Hours 16

Spring
MUS 404 Major Applied Study 4
MUS 109 Major Ensembles 1
MUS 562 Literature 2

Advanced Theory Course from specified list 2
MUS 497 Senior Recital - CUE (CUE) 0

PAS 214 African-American Music - AH, D1 3

Hours 12

Minimum Total Hours 122

Piano Performance with a Track in Piano Pedagogy

Course Title Hours

Year 1

Fall
MUS 100 Introduction to Music Study 1
MUS 101 Major Applied Study 2
MUS 109 Major Ensembles 1
MUS 141 Theory I 4

MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5
ENGL 101 Introduction to College Writing - WC 3

General Education: Cardinal Core Quantitative Reasoning - QR 3

General Education: Cardinal Core Natural Sciences - S 3

General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 17.5

Spring
MUS 102 Major Applied Study 2
MUS 109 Major Ensembles 1
MUS 142 Theory II 4
MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

ENGL 102 Intermediate College Writing - WC 3
ANTH 205 Music in World Cultures - D2, SB 3

General Education: Cardinal Core Natural Sciences - S 3

General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 17.5

Year 2

Fall
MUS 201 Major Applied Study 2
MUS 109 Major Ensembles 1
MUS 241 Theory III 4

MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

ENGL 102 Intermediate College Writing - WC 3
ANTH 205 Music in World Cultures - D2, SB 3

General Education: Cardinal Core Oral Communication - OC 3

General Education: Cardinal Core Arts & Humanities - AH 3

General or Music Electives 3

Hours 16.5

Spring
MUS 202 Major Applied Study 2
MUS 297 Piano Proficiency 0
MUS 109 Major Ensembles 1
MUS 242 Theory IV 4

MUS 361 Music Literature I (1000-1750) 3
MUS 359 Conducting I 2
MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

PAS 214 African-American Music - AH, D1 3

Minimum Total Hours 15.5

Year 3

Fall
MUS 301 Major Applied Study 2
MUS 109 Major Ensembles 1
MUS 362 Music Literature II (Classical & Early Romantic Music) 3
MUS 347 Analysis I 2

MUS 97 Recital Attendance (MUS 97-01) 0
MUS 119 Minor Ensembles (Piano Ensemble) 0.5

Minimum Total Hours 15.5

University of Louisville 327
Music Theory (BM)

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
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4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Music with Emphasis in Music Theory (MUSIBM MUT)

Unit: Music (http://www.louisville.edu/music)

Program Information

The Bachelor of Music in Theory degree is designed for students interested in understanding and eventually teaching music theory. Many of the graduates of this degree will pursue graduate studies in music theory. In addition to those goals common to all professional baccalaureate degrees in music, students in music theory develop an advanced capability for music analysis, including sophisticated communication skills about analysis and the ability to analyze a musical work from multiple perspectives. Students also develop a sophisticated knowledge of the relationship between music theory and music composition, including the ability to compose music with acoustic and digital sources, and with a degree of technical mastery of music notation, arranging, and computer notation. Theory majors use the tools of music analysis and theoretical research, including keyboard, knowledge of foreign languages, and bibliographic tools. Research techniques and effective written and oral communication skills must be demonstrated by the development and presentation of a senior paper.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
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<td></td>
<td>College/School Requirements</td>
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<td>Minimum Total Hours</td>
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</table>

1 While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.
General Education Requirements

General Education Requirements (http://catalog.louisville.edu/undergraduate/general-education-requirements)\(^1,2\)

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
<td>2</td>
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</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

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<table>
<thead>
<tr>
<th>Code of Music Requirements</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
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<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 242</td>
<td>Theory IV</td>
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</tr>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
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</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (eight 1-hour courses)(^4)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of “S”)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Piano Class(^5,6)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Piano Class(^5,6)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Piano Class III(^5,6)</td>
<td>1</td>
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<tr>
<td>MUS 347</td>
<td>Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 111</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 112</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 211</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 212</td>
<td>Principal Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
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</tr>
<tr>
<td>MUS 297</td>
<td>Piano Proficiency</td>
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Minimum Total Hours 47

Program/Major Requirements

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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>MUS 145</td>
<td>Secondary Composition</td>
<td>4</td>
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<tr>
<td>MUS 146</td>
<td>Secondary Composition</td>
<td>4</td>
</tr>
<tr>
<td>MUS 267</td>
<td>Music Theory Seminar (six 1/2 hour courses)</td>
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</tr>
<tr>
<td>MUS 552 Pedagogy of Theory</td>
<td></td>
<td>2</td>
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<tr>
<td>One course chosen from the following in consultation with the advisor and private instructor:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 345</td>
<td>Orchestral Scoring</td>
<td>2</td>
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<td>MUS 346</td>
<td>Band/Choral Scoring</td>
<td>2</td>
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<td>MUS 545</td>
<td>Advanced Instrumental Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 348</td>
<td>Analysis II</td>
<td>2</td>
</tr>
</tbody>
</table>

Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional General Education courses.

Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

Culminating Undergraduate Experience (Graduation requirement)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUS 498</td>
<td>Thesis Guidance - CUE</td>
<td>4</td>
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</table>

Requirement fulfilled by completing:

1. Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB.
2. MUH courses may not be taken to fulfill any General Education requirement.
3. Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 6 credit concurrently with MUS 141 Theory I. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142 Theory II, must enroll in MUS 92 Musicianship I for the spring semester. Credits for MUS 92 do not count toward the degree.
4. Strings take section 01, others solely dependent on the ensemble audition.
5. If applied principal is piano, Piano Class is replaced with 3 hours of electives. For students with a piano background, three semesters of MUS 121-MUS 221 (Secondary Piano) may be substituted.

6. Students will take the Piano Proficiency Examination at the end of MUS 231. Any student not completing the Piano Proficiency Examination will be required to take MUS 232 until the proficiency exam requirement is complete. Students must be enrolled continuously in Piano Class until their requirement has been completed. Those who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits. Entering students who have a background in piano may register for secondary piano if faculty load permits. Theory majors are strongly advised to take a second semester of piano for one semester with approval of the Keyboard Area.

7. Theory majors are strongly advised to take a second semester of German.

---

### Flight Plan

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
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<td>MUS 111</td>
<td>Principal Applied Study</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<td></td>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
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<td></td>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
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<tr>
<td></td>
<td>MUS 131</td>
<td>Piano Class (or Music Elective)</td>
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<tr>
<td></td>
<td>MUS 145</td>
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<td></td>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td></td>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
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<tr>
<td></td>
<td>Hours</td>
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<td>MUS 112</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<tr>
<td></td>
<td>MUS 142</td>
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<td>MUS 132</td>
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<td></td>
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<td>MUS 211</td>
<td>Principal Applied Study</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<td></td>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
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<td></td>
<td>MUS 97</td>
<td>Recital Attendance</td>
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<td></td>
<td>MUS 231</td>
<td>Piano Class III (or Music Elective)</td>
<td>1</td>
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<td></td>
<td>MUS 297</td>
<td>Piano Proficiency</td>
<td>0</td>
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<tr>
<td></td>
<td>MUS 267</td>
<td>Music Theory Seminar</td>
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<td>ANTH 205</td>
<td>Music in World Cultures - D2, SB</td>
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<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td></td>
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<td>MUS 242</td>
<td>Theory IV</td>
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<td>MUS 261</td>
<td>Music Literature I (1000-1750)</td>
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<td></td>
<td>MUS 359</td>
<td>Conducting I</td>
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<td></td>
<td>MUS 270</td>
<td>Creative Audio Recording and Production Techniques</td>
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<tr>
<td>Fall</td>
<td>MUS 325</td>
<td>Arts Instrument</td>
<td>1</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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</tr>
<tr>
<td></td>
<td>MUS 97</td>
<td>Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
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<tr>
<td></td>
<td>MUS 267</td>
<td>Music Theory Seminar</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>MUS 345</td>
<td>Orchestral Scoring</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>or MUS 346</td>
<td>Band/Choral Scoring</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>or MUS 545</td>
<td>Advanced Instrumental Scoring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUS 347</td>
<td>Analysis I</td>
<td>2</td>
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<tr>
<td></td>
<td>MUS 119</td>
<td>Minor Ensembles</td>
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</tr>
<tr>
<td></td>
<td>or MUS 129</td>
<td>Cardinal Singers</td>
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<td></td>
<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<td>Music or General Elective</td>
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<tr>
<td></td>
<td>Hours</td>
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<td>MUS 326</td>
<td>Arts Instrument</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<td></td>
<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
<td>2</td>
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<td></td>
<td>MUS 548</td>
<td>Post-Tonal Theory and Analysis</td>
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<td>MUS 267</td>
<td>Music Theory Seminar</td>
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<tr>
<td></td>
<td>MUS 348</td>
<td>Analysis II</td>
<td>2</td>
</tr>
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<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
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<td></td>
<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
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<td>Hours</td>
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<tr>
<th>Year 4</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Fall</td>
<td>MUS 425</td>
<td>Arts Instrument</td>
<td>1</td>
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<td></td>
<td>MUS 109</td>
<td>Major Ensembles</td>
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<tr>
<td></td>
<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 548</td>
<td>Post-Tonal Theory and Analysis</td>
<td>2</td>
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<td></td>
<td>MUS 267</td>
<td>Music Theory Seminar</td>
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<tr>
<td></td>
<td>MUS 522</td>
<td>Pedagogy of Theory</td>
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<td>Music or General Electives</td>
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<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
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<tr>
<td></td>
<td>Hours</td>
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<td>Spring</td>
<td>MUS 426</td>
<td>Arts Instrument</td>
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<td>MUS 109</td>
<td>Major Ensembles</td>
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<tr>
<td></td>
<td>MUS 550</td>
<td>Baroque Counterpoint</td>
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</tr>
<tr>
<td></td>
<td>MUS 547</td>
<td>Chromatic Harmony and Analysis</td>
<td>2</td>
</tr>
<tr>
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<td>MUS 267</td>
<td>Music Theory Seminar</td>
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<td>MUS 552</td>
<td>Pedagogy of Theory</td>
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<td>Music or General Electives</td>
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<tr>
<td></td>
<td>MUS 498</td>
<td>Thesis Guidance - CUE (CUE)</td>
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<tr>
<td></td>
<td>Hours</td>
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</table>

Minimum Total Hours 120

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Music Therapy (BM)

Music with Emphasis in Music Therapy (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Music with Emphasis in Music Therapy (MUTHBM)

Unit: Music (http://www.louisville.edu/music)

Program Information

The music therapy program is designed for students who want to provide therapeutic services to people using music. Students must be strong musicians and find satisfaction in using music to help with non-music areas and skills, rather than as a goal in itself. Students’ music skills will expand during their music therapy course work from performing on their principal instrument to also including functional piano, guitar, and voice skills, using other accompanying instruments such as the Q-chord and autoharp, and developing skill in using percussion instruments.

The music therapy program requires good intellectual skills as music therapists are required to use analytical skills in determining clinical goals and writing skills in documentation.

Music therapy majors may work with any age group and with people with a variety of disabilities. As a member of a therapeutic team or private practitioner, the music therapist participates in the analysis of individual problems and the establishment of treatment goals before planning and carrying out music-related treatment. Music therapists may also do administration in various health-related settings and, with advanced degrees, may become university faculty.

Degree Summary

Emphasis in Music Therapy (MUTHBM)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<tr>
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<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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<td></td>
<td>Minimum Total Hours</td>
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</table>

Emphasis in Music Therapy with track in Jazz Studies (MUTHBM.JAZ)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<tr>
<td></td>
<td>College/School Requirements</td>
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<td></td>
<td>Program/Major Requirements (including track course work)</td>
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</table>

*While not included in the School or Program coursework requirements, students are expected to take PAS 214 and ANTH 205 to satisfy some of the General Education requirements. COMM 115 is suggested for satisfying the Oral Communication requirement.*

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

Degree Requirements

The Music Therapy curriculum meets the competency requirements of the American Music Therapy Association (AMTA). Students must complete a minimum of 1200 hours of clinical training which includes at least 180 hours in pre-internship experiences and at least 900 hours in internship experiences. Students completing the Music Therapy curriculum are eligible to take the examination to become a Board Certified Music Therapist, offered by the Certification Board for Music Therapists.

A person who already has a bachelor’s degree from an accredited institution and who wishes to become a music therapist may take the courses not already taken that are required for music therapy certification, known as “equivalency” courses since they provide the equivalent of an undergraduate degree. The music therapy equivalency program leads to eligibility to apply to become a Board Certified Music Therapist but does not lead to a degree. Specific course requirements, based on the student’s transcript and experiences, are determined in conjunction with the Director of Music Therapy.

Students must demonstrate experience and competence in the use of percussion instruments and in the use of computers and music as appropriate for music therapists.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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12
The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- PAS 214 African-American Music - AH, D1
- ANTH 205 Music in World Cultures - D2, SB
- COMM 115 Interpersonal Skills - OC (suggested)

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

**School of Music Program Courses**

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<th>Code</th>
<th>Title</th>
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<tr>
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<td>MUS</td>
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<td>MUS 242</td>
<td>Theory II</td>
<td>1</td>
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**Music Literature**

- MUS 361 Music Literature I (1000-1750) : 1
- MUS 362 Music Literature II (Classical & Early Romantic Music) : 1
- MUS 363 Music Literature III (1860-present) : 1

**Principal Ensemble (eight 1-hour courses)**

- MUS 109 Major Ensembles : 8

**Applied Lessons**

*(Eight 1-hour courses, four 2-hour courses, or a combination of the two)*

1-hour courses:

- MUS 125 Arts Instrument
- MUS 126 Arts Instrument
- MUS 225 Arts Instrument
- MUS 226 Arts Instrument
- MUS 325 Arts Instrument
- MUS 326 Arts Instrument
- MUS 425 Arts Instrument
- MUS 426 Arts Instrument

2-hour courses:

- MUS 111 Principal Applied Study
- MUS 211 Principal Applied Study
- MUS 212 Principal Applied Study

**Piano Class (three 1-hour courses)**

- MUS 131 Piano Class
- MUS 132 Piano Class
- MUS 231 Piano Class III

**Recital Attendance (six semesters of "S" required, non-credit)**

- MUS 347 Analysis I (MUS 349 for Jazz Track students)
- MUS 349 Jazz Analysis

**Introduction to Music Study**

- MUS 100 Introduction to Music Study : 1
- MUS 297 Piano Proficiency : 0

**Music Therapy Requirements**

<table>
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<tr>
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<tr>
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<tr>
<td>MUTH 201</td>
<td>Music Therapy Techniques I</td>
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<td>MUTH 213</td>
<td>Clinical Music Therapy Applications II</td>
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<tr>
<td>MUTH 214</td>
<td>Clinical Music Therapy Applications III</td>
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<td>MUTH 313</td>
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<tr>
<td>MUTH 301</td>
<td>Psychology of Music</td>
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<td>MUTH 311</td>
<td>Improvisation for Music Therapy I</td>
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<td>MUTH 321</td>
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<td>MUTH 322</td>
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<td>MUTH 421</td>
<td>Practicum in Music Therapy III</td>
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<td>MUTH 422</td>
<td>Practicum in Music Therapy IV</td>
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<td>MUTH 431</td>
<td>Principles and Practices of Music Therapy I</td>
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<td>MUTH 432</td>
<td>Principles and Practices of Music Therapy II</td>
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<td>Introduction to Research in Music Therapy</td>
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<tr>
<td>MUTH 451</td>
<td>Music Therapy Internship - CUE (CUE)</td>
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**Supporting Courses**

- MUS 217 Class Guitar I for Music Therapy : 4
- MUS 218 Class Guitar II for Music Therapy : 4
- MUS 133 Functional Study : 2
- MUS 134 Functional Study (Functional Guitar) : 2
- MUS 219 Class Ukulele : 1
- MUS 227 Voice Class : 1
- MUS 123 Diction : 1
- PSYC 201 Introduction to Psychology - SB : 3
- PSYC 306 Life Span Developmental Psychology (previously PSYC 363) : 3
- PSYC 308 Abnormal Psychology (previously PSYC 385) : 3
- HSS 202 Human Anatomy & Physiology : 3
- MUED 405 Introduction to Orff Schulwerk: Music and Movement Education : 1

**EDSP 240 Introduction to Exceptional Children** : 3

**Minimum Total Hours** : 47

**Upper Division Assessment**

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 351; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105, and 3 additional Gen Ed courses.
Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

**Music Therapy with a Track in Jazz Studies**

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<tr>
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<td>MUTH 101</td>
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<tr>
<td>MUTH 201</td>
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<tr>
<td>&amp; MUTH 202</td>
<td>Music Therapy Techniques II</td>
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<td>MUTH 113</td>
<td>Clinical Music Therapy Applications I</td>
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<td>&amp; MUTH 213</td>
<td>Clinical Music Therapy Applications II</td>
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<td>Clinical Music Therapy Applications III</td>
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<td>&amp; MUTH 313</td>
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**Music Therapy Internship - CUE (CUE)** 7

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**Supporting Area; Track Courses**

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<td>MUS 130</td>
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<td>&amp; MUS 218</td>
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<tr>
<td>MUS 133</td>
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<tr>
<td>&amp; MUS 134</td>
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<tr>
<td>MUS 219</td>
<td>Class Ukulele</td>
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<tr>
<td>MUS 227</td>
<td>Voice Class</td>
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<tr>
<td>or MUS 123</td>
<td>Diction</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style &amp; Analysis)</td>
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<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-02 Jazz Theory)</td>
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<tr>
<td>MUS 352</td>
<td>Jazz Repertoire</td>
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<td>MUS 355</td>
<td>The Evolution of Jazz</td>
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<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
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</tbody>
</table>

**Additional Specific Elements and Standards**

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional Gen Ed courses.

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**Upper Division Assessment**

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**Music Therapy with a Track in Jazz Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUTH 451</td>
<td>Music Therapy Internship - CUE</td>
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**Supporting Area; Track Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-01 Jazz Style &amp; Analysis)</td>
<td>2</td>
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<tr>
<td>MUS 351</td>
<td>Studies in Jazz (MUS 351-02 Jazz Theory)</td>
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<tr>
<td>MUS 352</td>
<td>Jazz Repertoire</td>
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<tr>
<td>MUS 355</td>
<td>The Evolution of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Specific Elements and Standards**

1. Students are required to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB. In addition, Music Therapy majors should consider COMM 115 Interpersonal Skills - OC to satisfy the Oral Communication content.
2. MUH courses may not be taken to fulfill any General Education requirement.
3. Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 Fundamentals of Music I for 0 credit concurrently with MUS 141 Theory I. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142 Theory II, must enroll in MUS 92 Musicianship I for the spring semester. Credits for MUS 92 do not count toward the degree.
4. Strings take Section 01, others solely dependent on the ensemble audition. Jazz Studies track students take six 1-hour courses of Jazz Ensemble plus two 1-hour courses of other Major Ensemble.
5. If the Applied Principal is piano, Piano Class is replaced with 3 hours of electives.
Students will take the Piano Proficiency Examination at the end of MUS 231. Any student not completing the Piano Proficiency Examination will be required to take MUS 232 until the proficiency exam requirement is complete. Students must be enrolled continuously in Piano Class until their requirement has been completed. Those who pass the Piano Proficiency Examination before the end of the third semester of Piano Class may replace the requirement with electives or with secondary piano if faculty load permits. Entering students who have a background in piano may register for MUS 297 Piano Proficiency for one semester with approval of the Keyboard Area.

The internship is done after all other music therapy course work has been completed. The American Music Therapy Association requires that a student receive a grade of C- or better in all music therapy courses in order to be eligible for the internship. It must be completed within 24 months of completion of music therapy course work. However, the School of Music will not accept work below a C (not a C-minus) in a major subject.

Music Therapy students will require a C (not C-minus) grade in order to pass Supportive Area courses.

Music Therapy degree students may substitute Voice study at the functional level, MUS 133, for MUS 227 Voice Class at the discretion of the voice faculty.

MUS 123 Diction is required for all applied voice students.

### Flight Plan

#### Music Therapy

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>MUS 100</td>
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<tr>
<td>MUS 111</td>
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<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
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<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
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<tr>
<td>MUS 97</td>
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<td>MUS 131</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<td><strong>Hours</strong></td>
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<td>Music Therapy Techniques I</td>
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<td>Diction or MUS 227 Voice Class</td>
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<td>Introduction to Psychology - SB</td>
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<td>Abnormal Psychology</td>
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<td>Human Anatomy &amp; Physiology</td>
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University of Louisville
### General Education: Cardinal Core Natural Sciences - S

- **Hours**: 3

### General Education: Cardinal Core Arts & Humanities - AH

- **Hours**: 3

### Music Therapy with a track in Jazz Studies

#### Year 1

<table>
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<tr>
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<td>MUS 105 Jazz Applied</td>
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<tr>
<td></td>
<td>MUS 141 Theory I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MUS 97 Recital Attendance (MUS 97-06)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>MUS 132 Piano Class (or Music Elective)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUS 138 Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUTH 113 Clinical Music Therapy Applications I</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>ENGL 101 Introduction to College Writing - WC</td>
<td>3</td>
</tr>
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</table>

- **Total Hours**: 16

#### Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Fall</td>
<td>MUS 205 Jazz Applied</td>
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<td></td>
<td>MUS 109 Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUS 241 Theory III</td>
<td>4</td>
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<td></td>
<td>MUS 97 Recital Attendance (MUS 97-06)</td>
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<tr>
<td></td>
<td>MUS 231 Piano Class (or Music Elective)</td>
<td>1</td>
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<tr>
<td></td>
<td>MUS 297 Piano Proficiency</td>
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</tr>
<tr>
<td></td>
<td>MUTH 201 Music Therapy Techniques I</td>
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<tr>
<td></td>
<td>MUTH 213 Clinical Music Therapy Applications II</td>
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<tr>
<td></td>
<td>MUS 217 Class Guitar I for Music Therapy</td>
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<td>MUS 227 Voice Class</td>
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<td></td>
<td>MUS 340 Jazz Improvisation II</td>
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</table>

- **Total Hours**: 16.5

#### Spring

- **MUS 206 Jazz Applied**: 2
- **MUS 109 Major Ensembles**: 1
- **MUS 242 Theory IV**: 1
- **MUS 361 Music Literature I (1000-1750)**: 3
- **MUS 97 Recital Attendance (MUS 97-06)**: 0
- **MUS 218 Class Guitar II for Music Therapy**: 2
- **MUTH 202 Music Therapy Techniques II**: 3
- **MUTH 214 Clinical Music Therapy Applications III**: 0.5

- **Total Hours**: 15.5

#### Year 3

<table>
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<tr>
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<th>Hours</th>
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<tr>
<td>Fall</td>
<td>MUS 109 Major Ensembles</td>
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<tr>
<td></td>
<td>MUS 97 Recital Attendance (MUS 97-06)</td>
<td>0</td>
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<tr>
<td></td>
<td>MUS 362 Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
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<tr>
<td></td>
<td>MUS 347 Analysis I or MUS 349 or Jazz Analysis</td>
<td>2</td>
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<tr>
<td></td>
<td>MUTH 301 Psychology of Music</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MUTH 313 Clinical Music Therapy Applications IV</td>
<td>3</td>
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<tr>
<td></td>
<td>MUTH 321 Practicum in Music Therapy I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUTH 325 Music Therapy Training Group I</td>
<td>1</td>
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<tr>
<td></td>
<td>MUS 351 Studies in Jazz (MUS 351-02 Jazz Theory)</td>
<td>2</td>
</tr>
</tbody>
</table>

- **Total Hours**: 16.5

#### Spring

- **MUS 109 Major Ensembles**: 1
- **MUS 130 Jazz Piano Class**: 1
- **MUS 198 Jazz Piano Proficiency**: 0
- **MUTH 431 Principles and Practices of Music Therapy I**: 3
- **MUTH 421 Practicum in Music Therapy III**: 1
- **MUS 352 Jazz Repertoire**: 2
- **General Education: Cardinal Core Natural Sciences - S**: 3
- **General Education: Cardinal Core Natural Sciences Lab - SL**: 1
- **General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH**: 3

- **Total Hours**: 15

#### Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MUS 109 Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUS 130 Jazz Piano Class</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUS 198 Jazz Piano Proficiency</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>MUTH 431 Principles and Practices of Music Therapy I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MUTH 421 Practicum in Music Therapy III</td>
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</tr>
<tr>
<td></td>
<td>MUS 351 Studies in Jazz (MUS 351-02 Jazz Theory)</td>
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<tr>
<td></td>
<td>PSYC 308 Abnormal Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Total Hours**: 16

#### Spring

- **MUS 206 Jazz Applied**: 2
- **MUS 109 Major Ensembles**: 1
- **MUS 242 Theory IV**: 1
- **MUS 361 Music Literature I (1000-1750)**: 3
- **MUS 97 Recital Attendance (MUS 97-06)**: 0
- **MUS 218 Class Guitar II for Music Therapy**: 2
- **MUTH 202 Music Therapy Techniques II**: 3
- **MUTH 214 Clinical Music Therapy Applications III**: 0.5

- **Total Hours**: 16

#### Year 5

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<td>Fall</td>
<td>MUS 134 Functional Study (Guitar)</td>
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<td></td>
<td>MUS 355 The Evolution of Jazz</td>
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</tr>
<tr>
<td></td>
<td>EDSP 240 Introduction to Exceptional Children</td>
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</tr>
<tr>
<td></td>
<td>ANTH 205 Music in World Cultures - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Total Hours**: 16

#### Hours

- **Minimum Total Hours**: 335
Spring
MUTH 451 Music Therapy Internship - CUE 2

Minimum Total Hours 145

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Music Vocal Performance (BM)

Music with Emphasis in Vocal Performance (BM)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Music with Emphasis in Vocal Performance (MUSIBM VOC)

Unit: Music (http://www.louisville.edu/music)

Program Information

The Bachelor of Music in Performance degree is appropriate for students who wish to prepare for a career in music performance and related fields. Among the particular career emphases for which the BM in Performance is an appropriate preparation are professional performer, university teacher, private music studio teacher, or pre-professional preparation for music teacher certification study.

Most graduates will continue to develop their skills through further study. Students who have completed the BM in Performance at UofL typically do very well in gaining admission to strong graduate programs nationwide.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<tr>
<td></td>
<td>College/School Requirements</td>
<td>47</td>
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<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>129</td>
</tr>
</tbody>
</table>


1 While not included in the School or Program coursework requirements, students are expected to take PAS 214 African-American Music - AH, D1 and ANTH 205 Music in World Cultures - D2, SB to satisfy some of the General Education requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students in this unit are admitted directly into their degree program.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by this program and should be used to fulfill the respective General Education Requirement:

- PAS 214 African-American Music - AH, D1
- ANTH 205 Music in World Cultures - D2, SB

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>School of Music Requirements</td>
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</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
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<tr>
<td>MUS 142</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 242</td>
<td>Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 361</td>
<td>Music Literature I (1000-1750)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Music Literature III (1860-present)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles (eight 1-hour courses)</td>
<td>8</td>
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<tr>
<td>MUS 97</td>
<td>Recital Attendance (six semesters of &quot;S&quot;)</td>
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<tr>
<td>MUS 131</td>
<td>Piano Class</td>
<td>1</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Piano Class</td>
<td>1</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Piano Class III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 347</td>
<td>Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 104</td>
<td>Major Applied Study</td>
<td>4</td>
</tr>
</tbody>
</table>
Additional specific elements and standards appropriate to specific degree programs in jazz studies, music composition, music education, music history, instrumental and vocal performance, pedagogy, music theory, and music therapy are required of students in order to achieve Upper Division status and to continue in the degree program. Specific degree requirements are determined by the concentration and area faculties and are outlined in the Undergraduate Student Handbook.

### Program/Major Requirements

#### Vocal Performance Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101</td>
<td>Major Applied Study</td>
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</tr>
<tr>
<td>MUS 204</td>
<td>Major Applied Study</td>
<td>4</td>
</tr>
<tr>
<td>MUS 303</td>
<td>Major Applied Study</td>
<td>4</td>
</tr>
<tr>
<td>MUS 304</td>
<td>Major Applied Study</td>
<td>4</td>
</tr>
<tr>
<td>MUS 403</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 404</td>
<td>Major Applied Study</td>
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<tr>
<td>MUS 561</td>
<td>Literature (Vocal Literature I)</td>
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<tr>
<td>MUS 562</td>
<td>Literature (Vocal Literature II)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 123</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUS 571</td>
<td>Pedagogy (Voice Pedagogy)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Minor Ensembles (two ½ hour courses of Opera Workshop)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 497</td>
<td>Senior Recital - CUE (CUE)</td>
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</table>

#### Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUS 121</td>
<td>Secondary Applied Study (Secondary Piano)</td>
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<tr>
<td>MUS 122</td>
<td>Secondary Applied Study (Secondary Piano)</td>
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</tr>
<tr>
<td>MUS 359</td>
<td>Conducting I</td>
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</table>

#### Foreign Language

Select two of the following sequences: 16

<table>
<thead>
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<th>Sequence One</th>
<th></th>
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<tbody>
<tr>
<td>ITAL 121 Basic Italian I</td>
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<tr>
<td>&amp; ITAL 122 Basic Italian II</td>
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</table>

<table>
<thead>
<tr>
<th>Sequence Two</th>
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<tbody>
<tr>
<td>GERM 121 Basic German I</td>
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<tr>
<td>&amp; GERM 122 Basic German II</td>
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<table>
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<tr>
<td>FREN 121 Basic French I</td>
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</tr>
<tr>
<td>&amp; FREN 122 Basic French II</td>
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</tbody>
</table>

Minimum Total Hours: 47

#### Upper Division Assessment

All students enrolled in a music degree program will be reviewed at the approximate midpoint of the selected program in order for students to achieve Upper Division status. Students must meet the standards of this review to register for 400-level courses in music. Both the elements and standards of the review are established by the faculty and include credit for MUS 242 Theory IV or Analysis (MUS 347 for BA General; MUS 349 for BA Jazz Studies; MUS 350 for BA Music & New Media); MUS 361; 4 semesters of Applied Instrument at the course numbers required for the degree; Piano Proficiency Examination; MUS 97 Recital Attendance, with a grade of S for 4 semesters; Ensemble participation; cumulative 2.5 GPA (good standing); minimum of 48 credit hours completed; pass ENGL 101 or ENGL 105; and 3 additional Gen Ed courses.

### Flight Plan

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 100</td>
<td>Introduction to Music Study</td>
<td>1</td>
</tr>
<tr>
<td>MUS 101</td>
<td>Major Applied Study</td>
<td>2</td>
</tr>
<tr>
<td>MUS 109</td>
<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 141</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-02)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 123</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Piano Class</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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</table>

General Education: Cardinal Core Quantitative Reasoning - QR [3]

#### Spring

<table>
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<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
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<td>Major Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 142</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (MUS 97-02)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUS 132</td>
<td>Piano Class</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
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</table>

General Education: Cardinal Core Oral Communication - OC [3]
### Year 2

#### Fall
- **MUS 203** Major Applied Study 4
- **MUS 109** Major Ensembles 1
- **MUS 241** Theory III 4
- **MUS 97** Recital Attendance (MUS 97-02) 0
- **MUS 231** Piano Class III 1
- **MUS 297** Piano Proficiency 0
- **General Education: Cardinal Core Natural Sciences - S** 3
- **General Education: Cardinal Core Natural Sciences Lab - SL** 1
- **General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH** 3

| Hours | 17 |

#### Spring
- **MUS 204** Major Applied Study 4
- **MUS 109** Major Ensembles 1
- **MUS 242** Theory IV 4
- **MUS 361** Music Literature I (1000-1750) 3
- **MUS 359** Conducting I 2
- **MUS 97** Recital Attendance (MUS 97-02) 0
- **MUS 121** Secondary Applied Study (Piano) 1

| Hours | 15 |

### Year 3

#### Fall
- **MUS 303** Major Applied Study 4
- **MUS 109** Major Ensembles 1
- **MUS 347** Analysis I 2
- **MUS 97** Recital Attendance (MUS 97-02) 0
- **MUS 362** Music Literature II (Classical & Early Romantic Music) 3
- **MUS 561** Literature (Vocal Literature) 2
- **MUS 122** Secondary Applied Study (Piano) 1
- **MUS 119** Minor Ensembles (Opera Workshop) 0.5
- **Foreign Language (Sequence 1a)** 4

| Hours | 17.5 |

#### Spring
- **MUS 304** Major Applied Study 4
- **MUS 109** Major Ensembles 1
- **MUS 97** Recital Attendance (MUS 97-02) 0
- **MUS 363** Music Literature III (1800-present) 3
- **MUS 562** Literature (Vocal Literature) 2
- **Foreign Language (Sequence 1b)** 4

| Hours | 14 |

### Year 4

#### Fall
- **MUS 403** Major Applied Study 4
- **MUS 109** Major Ensembles 1
- **MUS 119** Minor Ensembles (Opera Workshop) 0.5
- **MUS 571** Pedagogy (Voice Pedagogy) 2
- **Foreign Language (Sequence 2a)** 4
- **General Education: Cardinal Core Arts & Humanities - AH** 3
- **General Education: Cardinal Core Natural Sciences - S** 3

| Hours | 17.5 |

#### Spring
- **MUS 404** Major Applied Study 4
- **MUS 109** Major Ensembles 1
- **MUS 497** Senior Recital - CUE (CUE) 0
- **Foreign Language (Sequence 2b)** 4
- **PAS 214** African-American Music - AH, D1 3
- **ANTH 205** Music in World Cultures - D2, SB 3

| Hours | 15 |

### Minimum Total Hours
- 129

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

### Neuroscience (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Neuroscience**  
Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)  
Department: Psychological and Brain Sciences (http://louisville.edu/psychology); Anatomical Sciences and Neurobiology (http://louisville.edu/medicine/departments/anatomy)

**Program Information**

The Bachelor of Science in Neuroscience (BS in Neuroscience) is an interdisciplinary degree with a STEM+Health focus. The program trains students to critically assess and analyze ideas and concepts from the diverse disciplines that contribute to the field of neuroscience. Students achieve an in-depth understanding of nervous system function, from the molecular level to the cognitive sciences, and become familiar with the techniques used to measure nervous system function from the cellular level to the whole brain.

Graduates of this program are poised for careers in a wide variety of areas, including neuroscience and health-related fields, the social sciences, and the biological sciences. This program also prepares students for advanced-degree study in graduate school and professional degree programs.
Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>13-15</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>77</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 121-123

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

### Admission Requirements

Requirements for admission to the BS in Neuroscience:

1. Complete PSYC 201 or (equivalent) and PSYC 305, earning a grade of C or higher.
2. Complete Statistics Requirement (PSYC 301 or BIOL 350), earning a grade of C or higher. Completion of MATH 205 is required for the degree. For admission to the major, students must have completed the necessary math coursework, or have a math placement score, to satisfy the prerequisites to enroll in MATH 205.
3. Have an overall cumulative GPA of at least 2.5 (no grades of C-minus or lower in core or supporting coursework may be counted toward requirements for the major).
4. Have completed at least 30 hours of degree-applicable credit.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

### General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- PSYC 201 Introduction to Psychology - SB
- BIOL 240 Unity of Life - S
- CHEM 201 General Chemistry I - S
- CHEM 207 Introduction to Chemical Analysis I - SL
- MATH 205 Calculus I - QR

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

#### Arts & Sciences Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6-8</td>
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</tr>
<tr>
<td>Electives in Humanities or Social Sciences at 300+level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>WR - two approved courses at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 13-15

### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 350</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 302</td>
<td>Research Methods for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>Brain and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 331</td>
<td>Sensation and Perception</td>
<td>3</td>
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<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 355</td>
<td>Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 382</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 465</td>
<td>Principles of Physiology</td>
<td>3</td>
</tr>
<tr>
<td>or BE 354</td>
<td>Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 492</td>
<td>Undergraduate Psychology Research - CUE (or PSYC 495 and PSYC 496)</td>
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</tr>
<tr>
<td>ASNB 502</td>
<td>Fundamentals of Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
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<tr>
<td>ASNB 517</td>
<td>Seminar on Developmental Neurobiology</td>
<td>3</td>
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<tr>
<td>ASNB 566</td>
<td>Synaptic Organization of the Central Nervous System</td>
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#### Supporting Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>2</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>Fundamentals of Physics I - S</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>Fundamentals of Physics II - S</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>Fundamentals of Physics Lab I - SL</td>
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<tr>
<td>PHYS 224</td>
<td>Fundamentals of Physics Laboratory II - SL</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Electives

12

Suggested Electives

- ASNB 514 | Molecular Neuroscience
- BIOL 330 | Genetics and Molecular Biology
- BIOL 331 | Genetics and Molecular Biology: Laboratory
- BIOL 415 | Biology of the Cell - CUE, WR
- BIOL 511 | Behavioral Endocrinology - CUE, WR
Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

Students must participate in at least 3 hours of a research experience, which may include independent research or directed readings with a neuroscience faculty mentor.

Completion of the second semester of a single foreign language; hours will vary depending on the language taken

In addition to courses counted toward General Education

May be incorporated into other degree requirements

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

At least two of the courses selected to satisfy these General Education/Cardinal Core requirements must also satisfy Diversity requirements (at last once course/3 credits each of U.S./D1 and Global/D2 Diversity coursework).
Nursing (RN-BSN Online Program) (BSN)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Nursing (NUR BSNUDO)
Unit: Nursing (http://www.louisville.edu/nursing)

This program is for students who are already licensed Registered Nurses.

Program Information

This program is completed entirely online (http://louisville.edu/online/programs/index/bachelors/rn-to-bachelor-of-science-in-nursing).

The School of Nursing offers an RN-BSN online curriculum designed by nurses for nurses to reflect the evolving nature of health care. We are dedicated to your success and committed to helping you take the next step in your academic and career advancement. Recently ranked in the top ten RN-BSN online programs by AffordableCollegesOnline (http://louisville.edu/nursing/news/uofl-online-nursing-program-ranked-among-nation2019s-best), our program provides a flexible, cost-effective opportunity for registered nurses with an associate’s degree or a nursing diploma to earn a Bachelor of Science in Nursing in as little as 16 months.

Prospective students interested in a first-degree BSN program or individuals with a bachelor’s degree in another discipline who are interested in pursuing a degree in Nursing should refer to the Pre-Licensure Nursing (p. 342) program or the Master’s Entry into Professional Nursing (p. 1001) program, respectively.

RN-BSN students must present official transcripts of coursework completed from all universities and schools attended.

This program is completed entirely online (http://louisville.edu/online/programs/bachelors/rn-to-bachelor-of-science-in-nursing).

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 257</td>
<td>Introduction to Microbiology - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 258</td>
<td>Introduction to Microbiology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td>3</td>
</tr>
<tr>
<td>Free Electives</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>35</td>
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</table>

To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

The RN-BSN 100% online program is offered by the University of Louisville’s School of Nursing for registered nurses who have an associate degree in nursing (ADN) or a nursing diploma. Students are required to have a minimum undergraduate cumulative grade point average of 2.5 and an RN license without restrictions.

For more information on program requirements and how to apply, please visit louisville.edu/online/programs/bachelors/rn-to-bachelor-of-science-in-nursing/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 257</td>
<td>Introduction to Microbiology - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 258</td>
<td>Introduction to Microbiology Laboratory - SL</td>
<td>1</td>
</tr>
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<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours

1 All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 257</td>
<td>Introduction to Microbiology - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 258</td>
<td>Introduction to Microbiology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td>3</td>
</tr>
<tr>
<td>Free Electives</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>

Note: Students must have a minimum total of 60 credit hours from the pre-professional curriculum.
Program/Major Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NURS 355</td>
<td>Portfolio Equivalency</td>
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<tr>
<td>NURS 381</td>
<td>Foundations for Evidenced-Based Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 382</td>
<td>Nursing Research for Evidence-Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 383</td>
<td>Case Management of Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>NURS 385</td>
<td>Nursing Leadership and Health Policy</td>
<td>4</td>
</tr>
<tr>
<td>NURS 387</td>
<td>Pathophysiology and Pharmacotherapeutics for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NURS 388</td>
<td>Global Health: Disparities and Social Determinants - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>NURS 470</td>
<td>Community Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 482</td>
<td>Health Promotion for Individuals, Families, and Communities</td>
<td>3</td>
</tr>
<tr>
<td>NURS 488</td>
<td>Leadership Project</td>
<td>2</td>
</tr>
<tr>
<td>NURS 476</td>
<td>Community Leadership Practicum - CUE (Effective spring 2019; NURS 473 in fall 2018)</td>
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</table>

Culminating Undergraduate Experience (Graduation requirement)

<table>
<thead>
<tr>
<th>Requirement fulfilled by completing:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 476 Community Leadership Practicum - CUE (Effective spring 2019; NURS 473 in fall 2018)</td>
<td></td>
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</tbody>
</table>

Minimum Total Hours 61

Thirty (30) of the last 36 credits must be completed at the University of Louisville.

All RN-BSN nursing courses are taught online.

1 Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

2 To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements (or decrease the listed electives).

Nursing, Pre-Licensure Program (BSN)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Nursing (NU_BSN, NURSBSN)

Unit: Nursing (http://www.louisville.edu/nursing)

Program Information

The Traditional Bachelor of Science in Nursing program is a four year program that consists of four semesters of lower division course work and four semesters of upper division course work that prepares students for a career in professional nursing by providing a dynamic course of study that is both theoretical and practical. As citizens of a larger community, our focus is to address the complex health care needs of diverse and dynamic populations through nursing education, research, scholarship and service. Our students graduate prepared to demonstrate excellence in nursing science, practice and leadership in a variety of settings for the benefit of clients across the lifespan and to meet the evolving health care needs of society. Our BSN program also provides the necessary foundation for masters and doctoral degrees in nursing.

Students have access to innovative Patient Simulation and Standardized Patient Centers. Faculty have the highest qualifications and conduct research in their areas of specialization.

By including a core of knowledge in the humanities and the behavioral, physical, and biological sciences, as well as theory and practice of professional nursing graduates of the BSN program will be prepared to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Ten (10) hours of General Education requirements may be satisfied through coursework required by the degree program</td>
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<td></td>
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<tr>
<td>College/School Requirements</td>
<td></td>
<td>41-42</td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>59</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>120-121</td>
</tr>
</tbody>
</table>

1 Some courses required in this degree program can satisfy multiple requirements. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements (or reduce the number of available electives). See the Degree Requirements tab for specific coursework.

2 NURS 101 is only required for new students with less than 24 earned college credits.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students are admitted directly into the Lower Division of the Nursing Program.

Please refer to the catalog pages containing the admissions details for the School of Nursing (p. 36).
### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
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<tr>
<td>CHEM 105</td>
<td>Chemistry for Health Professionals - S</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 257</td>
<td>Introduction to Microbiology - S</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 258</td>
<td>Introduction to Microbiology Laboratory - SL</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
<td>3</td>
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<tr>
<td>HSS 303</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NURS 101</td>
<td>S.T.A.T. for Nursing Students (Success Tips And Techniques) (not required for transfer students with 24+ hours)</td>
<td>0-1</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
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</tr>
<tr>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 306</td>
<td>Life Span Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 493</td>
<td>Nursing Leadership and Management</td>
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<tr>
<td>NURS 494</td>
<td>Capstone in Professional Nursing Practicum - CUE (CUE)</td>
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<tr>
<td>NURS 492</td>
<td>Global Public Health</td>
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<tr>
<td>NURS 500</td>
<td>Variables Impacting Health Care Delivery: A Global Context</td>
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**Minimum Total Hours: 59**

### College/School Requirements

#### Nursing Pre-Professional Curriculum

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>NURS 101</td>
<td>S.T.A.T. for Nursing Students (Success Tips And Techniques) (not required for transfer students with 24+ hours)</td>
<td>0-1</td>
</tr>
<tr>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
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</tr>
<tr>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 306</td>
<td>Life Span Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HSS 303</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NURS 338</td>
<td>Lifespan Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 395</td>
<td>Nursing Pharmacotherapeutics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>College Algebra - QR</td>
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</tbody>
</table>

**Minimum Total Hours: 31**

### Program/Major Requirements

#### Nursing Professional Curriculum

**Junior Level**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 344</td>
<td>Community Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 345</td>
<td>Foundations of Professional Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NURS 346</td>
<td>Management of Care of the Adult Health Client I</td>
<td>5</td>
</tr>
<tr>
<td>NURS 347</td>
<td>Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>NURS 356</td>
<td>Management of Care of the Adult Health Client II</td>
<td>7</td>
</tr>
<tr>
<td>NURS 357</td>
<td>Maternal-Newborn Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 358</td>
<td>Nursing Research for Evidence-Based Practice</td>
<td>2</td>
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</table>

**Senior Level**

<table>
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<tr>
<th>Code</th>
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<th>Hours</th>
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<td>NURS 481</td>
<td>Child Health Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 486</td>
<td>Management of Care of the Adult Health Client III</td>
<td>5</td>
</tr>
<tr>
<td>NURS 487</td>
<td>Psychiatric-Mental Health Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 491</td>
<td>Transition to Professional Nursing Practice</td>
<td>2</td>
</tr>
</tbody>
</table>

### Flight Plan

#### Flight Plan with Summer Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fall</td>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
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<tr>
<td></td>
<td>CHEM 105</td>
<td>Chemistry for Health Professionals - S</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NURS 101</td>
<td>S.T.A.T. for Nursing Students (Success Tips And Techniques)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 111</td>
<td>College Algebra - QR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td></td>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective US Diversity - SBHD1</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 15**

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Fall</td>
<td>BIOL 261</td>
<td>Human Anatomy &amp; Physiology II</td>
</tr>
<tr>
<td></td>
<td>BIOL 262</td>
<td>Human Anatomy &amp; Physiology Lab</td>
<td>1</td>
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</tbody>
</table>

**Total Hours: 15**
Flight Plan Without Summer Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>BIOL 102 Biology: Current Issues and Applications - S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 105 Chemistry for Health Professionals - S</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NURS 101 S.T.A.T. for Nursing Students (Success Tips And Techniques)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ENGL 101 Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 111 College Algebra - QR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AH</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
<td>17</td>
</tr>
<tr>
<td>Spring</td>
<td>BIOL 260 Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 102 Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOL 257 Introduction to Microbiology - S</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOL 258 Introduction to Microbiology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Organizational Leadership and Learning (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Organizational Leadership and Learning (WFL BS)
Unit: College of Education and Human Development (http://louisville.edu/education)  
Department: Educational Leadership, Evaluation and Organizational Development (http://louisville.edu/education/departments/eleod)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Bachelor of Science in Organizational Leadership and Learning (OLL), formerly Workforce Leadership, is designed for working professionals who have at least five years of work experience. It is a great option for adults seeking an extra edge in today’s job market. If you are ready to finish your degree, we can help do it while you enhance your skills in leading people and organizations or plan for a new career.

Classes are offered online, or in convenient off-campus locations, Monday through Thursday evenings in Louisville and at Fort Knox.

UofL also offers a BS in Organizational Leadership and Learning in Healthcare Leadership (p. 346) program.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>74-77</td>
</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>12-15</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students are required to have at least five years of work experience and have a 2.0 GPA or higher for admission to the BS in Organizational Leadership and Learning.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>31</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Organizational Leadership and Learning Core</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 300</td>
<td>Prior Learning Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 311</td>
<td>Needs Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 316</td>
<td>Instructional Strategies and Group Facilitation Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 341</td>
<td>Managing Projects in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 411</td>
<td>Human Resource Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 442</td>
<td>Supporting Organizational Change</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 540</td>
<td>Program Exit Experience - CUE (CUE)</td>
<td>3-8</td>
</tr>
<tr>
<td>ELFH 578</td>
<td>Workplace and Information Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Track Requirements (see tab for specific course requirements) 12-15
Minimum Total Hours 36-44

Work Specialization & Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Work Specialization</td>
<td>varies</td>
</tr>
<tr>
<td>ELFH 290</td>
<td>Occupational Courses</td>
<td>2-42</td>
</tr>
<tr>
<td>ELFH 291</td>
<td>Occupational Learning</td>
<td>2-45</td>
</tr>
<tr>
<td>ELFH 390</td>
<td>Advanced Occupational Courses</td>
<td>2-18</td>
</tr>
<tr>
<td>ELFH 391</td>
<td>Advanced Occupational Learning</td>
<td>2-18</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>0-44</td>
</tr>
</tbody>
</table>

Minimum Total Hours 48-53

Culminating Undergraduate Experience (Graduation requirement)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 540</td>
<td>Program Exit Experience - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1. Complete within first year
2. Applications for ELFH 540 must be submitted by mid-term week of the semester prior to enrollment. All other core classes and at least one-half of the track courses must be completed prior to enrollment.
3. Students may select the following tracks with this core: Leadership, Training and Organizational Development or Career and Technical Education. Tracks suspended to further enrollment include Training and Development and Leadership and Organizational Development.
4. A minimum of 9 hours of Work Specialization/Prior Learning Assessment (PLA) credit is required, however, students may earn a maximum of 48 hours for the track in Leadership, Training and Organizational Development, 45 hours for the Career and Technical Education track, and 48 hours for the Training and Development and Leadership and Organizational Development tracks, based on their prior work experience. Depending on available PLA and track, students may need elective coursework to reach the minimum 120 hours required for the degree.
5. Requirements for posting the Work Specialization credits: prior extensive documented work learning; completion of an additional 12 hours in the major core courses with a B or better grade point average.

Track Requirements


Track in Career and Technical Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 312</td>
<td>Designing Learning</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 332</td>
<td>Measuring and Evaluating Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 510</td>
<td>Teaching Career and Technical Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
</tr>
<tr>
<td>EDSP 540</td>
<td>Introduction to Exceptional Children</td>
</tr>
<tr>
<td>EDSP 545</td>
<td>Exceptional Children in the Regular Classroom</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

Applicants must have completed requirements for a professional license. This program is designed for Kentucky certified teachers in Career and Technical Education to earn their Rank 1 certification.

Mid-Point Assessment: Completion of 32 credit hours in the Career and Technical courses with an average GPA of 2.5 and a letter grade of C or better.

Track in Leadership and Organizational Development (LTOD)

Choose 12 credit hours from the list below: 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 312</td>
<td>Designing Learning</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 314</td>
<td>Diversity in the Workplace - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 332</td>
<td>Measuring and Evaluating Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 412</td>
<td>Coaching and Talent Management</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 420</td>
<td>Conflict Management in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 460</td>
<td>Adult Learning and Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 490</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 575</td>
<td>Instructional Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

Mid-point Assessment: Program Competency Self-Assessment and a Hallmark Assessment from ELFH 341.

A minimum of 120 hours with an overall GPA of 2.25 is required for completion, with a 2.5 GPA required in the major courses. All major course grades must be a C or better. Thirty-one hours of general education credit are required. A minimum of 50 hours of credit at the 300 level or above are required, along with satisfactory completion of the Program Portfolio.

Tracks Suspended to Further Enrollment

The following tracks have been suspended to further enrollment, effective Spring 2018, and reorganized into a consolidated Leadership, Training, and Organizational Development/LTOD track (details above).

Track in Training and Development

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 312</td>
<td>Designing Learning</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 332</td>
<td>Measuring and Evaluating Effectiveness</td>
<td>3</td>
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</table>

Track in Leadership and Organizational Development Suspended to further enrollment.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 314</td>
<td>Diversity in the Workplace - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 412</td>
<td>Coaching and Talent Management</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 420</td>
<td>Conflict Management in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 490</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

Organizational Leadership and Learning, Healthcare Leadership (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Organizational Leadership and Learning, Healthcare Leadership Development track

Unit: College of Education and Human Development (http://louisville.edu/education)
Department: Educational Leadership, Evaluation and Organizational Development (http://louisville.edu/education/departments/eleod)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/bachelors/bachelor-of-science-in-organizational-leadership-and-learning).

The Bachelor of Science in Organizational Leadership and Learning with a focus on Healthcare Leadership allows healthcare professionals to capitalize on existing knowledge and experience, and earn a bachelor’s degree that can further enhance your skills in leadership, organizational change, workplace development and performance and attain higher-level positions in your organization.

UofL’s OnTrack program is the first of its kind in the state and region, with a curriculum based on the National Center for Healthcare Leadership’s (NCHL.org) competency model, which is one of the leading industry standard models for healthcare executive competencies development.

This program is essential for individuals who have acquired experience in the healthcare field, but are missing the proper credentials for promotions within their organization, increased pay, or management and leadership roles.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
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<td></td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td>77</td>
<td></td>
</tr>
</tbody>
</table>
Human Development for consideration of admission.

Hours of healthcare experience, may petition the College of Education and

Applicants who have a cumulative GPA below 2.7 or less than 2,000

transferable credit.

Additionally, applicants are recommended to have at least 24 hours of

healthcare experience across a wide variety of organizational settings.

college level courses and at least 2,000 hours (approximately one year) of

a track in Healthcare Leadership must have a 2.7 cumulative GPA in

Applicants to the BS in Organizational Leadership and Learning with

Departmental Admission Requirements

Applicants to the BS in Organizational Leadership and Learning with a track in Healthcare Leadership must have a 2.7 cumulative GPA in college level courses and at least 2,000 hours (approximately one year) of healthcare experience across a wide variety of organizational settings.

Additionally, applicants are recommended to have at least 24 hours of transferable credit.

Applicants who have a cumulative GPA below 2.7 or less than 2,000 hours of healthcare experience, may petition the College of Education and Human Development for consideration of admission.

Flex Pace: This is the current pathway for students wishing to pursue the Competency-Based Education model (CBE). In Flex Path, students have 32 weeks to move through the program materials at their own pace. Many students value this level of flexibility. This path places the responsibility on the student to set and maintain their own pace to finish the materials on time. Financial Aid is dependent on timely completion. Students may enroll in additional CBE courses as soon as previously enrolled courses are completed to expedite program completion.

Set Pace: In this pathway, students enroll in 8-week courses and complete each course within a predetermined time frame. This option is for students who wish to follow a more structured and traditional university schedule while taking advantage of accelerated terms. Two terms will be available in Fall and Spring and one term will be available in Summer.

Students may start the program on the first Tuesday of every month (except December). Students in this program will register for all major and track courses with their assigned Success Coach. All tuition and fees for CBE courses are non-refundable when a student begins a CBE course. The CBE course term begins with enrollment and the onset of academic activity.

The CBE course completion period begins with enrollment and the onset of academic activity. Flex Pace/CBE courses are student self-paced, but students must complete enrolled CBE courses within 32 weeks. A student cannot withdraw from a CBE course once started.

Set Pace: In this pathway, students enroll in 8-week courses and complete each course within a predetermined time frame. All coursework in the Set Pace Pathway must be completed within the 8-week term period. Tuition and fees in "et Pace enrollments may be refunded in accordance with normal university policies.

Additional Information: For more information on the Healthcare Leadership program, please go to: louisville.edu/online/programs/competency-based-degree-programs/healthcare-leadership-cbe

UofL also offers non-CBE BS programs in Organizational Leadership and Learning (p. 345) with tracks in Career and Technical Education and Leadership, Training and Organizational Development (LTOD).

Departmental Admission Requirements

Applicants to the BS in Organizational Leadership and Learning with a track in Healthcare Leadership must have a 2.7 cumulative GPA in college level courses and at least 2,000 hours (approximately one year) of healthcare experience across a wide variety of organizational settings.

Additionally, applicants are recommended to have at least 24 hours of transferable credit.

Applicants who have a cumulative GPA below 2.7 or less than 2,000 hours of healthcare experience, may petition the College of Education and Human Development for consideration of admission.

General Education Requirements

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Program/Major Requirements

Healthcare Leadership Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 307</td>
<td>Prior Learning Assessment for Healthcare Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 308</td>
<td>Needs Assessment in Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 309</td>
<td>Managing Projects in Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 410</td>
<td>Fundamentals of Healthcare Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 413</td>
<td>Management of Diversity in Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 415</td>
<td>Organizational Change in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 416</td>
<td>Principles of Healthcare Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 450</td>
<td>Healthcare Leadership (CUE)</td>
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Minimum Total Hours: 36

Track Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ELFH 430</td>
<td>Healthcare Finance and Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 431</td>
<td>Healthcare Information Management</td>
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</tr>
<tr>
<td>ELFH 432</td>
<td>Healthcare Quality Evaluation</td>
<td>3</td>
</tr>
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<td>ELFH 433</td>
<td>Healthcare Law and Ethics</td>
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Minimum Total Hours: 36

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 290</td>
<td>Occupational Courses</td>
<td>2-42</td>
</tr>
<tr>
<td>ELFH 291</td>
<td>Occupational Learning</td>
<td>2-45</td>
</tr>
<tr>
<td>ELFH 390</td>
<td>Advanced Occupational Courses</td>
<td>2-18</td>
</tr>
<tr>
<td>ELFH 391</td>
<td>Advanced Occupational Learning</td>
<td>2-18</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 53

Students must demonstrate competency at the B+ level or higher to successfully complete a program course. If a student does not achieve a B+ or higher in a program course before the end of the term, then the student will receive the highest grade earned during the course, or F if the student fails to submit required deliverables. Only one repetition of a program course is permitted. If a student does not earn a B+ or higher in the repeated course, then the student will be dropped from the program.
Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 450</td>
<td>Healthcare Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Students must select the following track with this core: Healthcare Leadership.

2. A minimum of 9 hours of Work Specialization/Prior Learning Assessment credit is required, however, students may earn up to 48 hours of credit based on their prior work experience. Requirements for posting the Work Specialization credits: 1) prior extensive documented work learning and 2) completion of an additional 12 hours in the Major Core Courses with a B+ (3.3) or better grade point average.

Pan-African Studies (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Pan-African Studies (PAS BA)

Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)

Department: Pan-African Studies (http://louisville.edu/panafricanstudies)

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Program Information

The Department of Pan-African Studies has developed a Bachelor of Arts and a Bachelor of Science degree. This provides an opportunity for structured undergraduate study in the multi-disciplinary field of Pan-African Studies. Students also have the choice of earning a minor in Pan-African Studies as well.

PAS majors have career options quite similar to those of students with baccalaureate degrees in the humanities and social sciences and a PAS minor often enhances the employability of students who major in other fields.

Increasingly, PAS majors are also finding career opportunities specific to the discipline itself. Such opportunities are most common in social, cultural and educational agencies/organizations, and in business and international affairs initiatives that concern people of color. Other PAS graduates choose to pursue graduate degrees.
PAS 408 Research Methods in Pan-African Studies - WR 3
PAS 409 Pan-African Studies Capstone Seminar - CUE 3
PAS 500 Cooperative Internship in Pan-African Studies 3
or PAS 586 Field Research 3
Any 500 level Pan-African Studies course approved by the advisor 3

Pan-African Studies Subfields (see lists of approved courses below)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tr>
<td>PAS 210</td>
<td>Introduction to Pan-African Literature - AH, D2</td>
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<tr>
<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
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<td>PAS 217</td>
<td>Introduction to Indigenous Religions of Africa, the Americas and the Pacific Basin</td>
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<tr>
<td>PAS 218</td>
<td>Survey of American Jazz - AH, D1</td>
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<tr>
<td>PAS 219</td>
<td>Survey of Brazilian Music</td>
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<td>PAS 247</td>
<td>Language, Protest and Identity - D1, SB</td>
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<tr>
<td>PAS 272</td>
<td>Reggae Music &amp; the Politics of Black Liberation - AH, D2</td>
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<tr>
<td>PAS 273</td>
<td>The Rhythm and Blues Revolution and American Culture - AH, D1</td>
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<tr>
<td>PAS 300</td>
<td>Humanities Special Topics in Pan-African Studies</td>
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<tr>
<td>PAS 308</td>
<td>Contemporary Trends in African-American Art - WR</td>
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<tr>
<td>PAS 310</td>
<td>African-American Art I: From West Africa to 1920s</td>
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<tr>
<td>PAS 311</td>
<td>African-American Art History II: From the 1920s to Present</td>
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<tr>
<td>PAS 315</td>
<td>Theatre of the African World - AH, D2</td>
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<tr>
<td>PAS 317</td>
<td>African-American Religion - AH, D1</td>
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<tr>
<td>PAS 330</td>
<td>Women in African-American Religion</td>
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<td>PAS 340</td>
<td>African-American Literature - AH, D1</td>
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<td>PAS 341</td>
<td>Black Film and Literature - AH, D1</td>
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<td>PAS 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
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<td>PAS 346</td>
<td>African Languages in the Diaspora - D1, SB</td>
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<tr>
<td>PAS 348</td>
<td>Aesthetic in the Africana Community</td>
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PAS 349 African Americans and Islam 3
PAS 350 African-American Women in Theatre - AH, D1, WR 3
PAS 351 Survey of African Religion and Culture 3
PAS 353 Acting the Black Experience - AH, D1 3
PAS 355 Cultural Diversity in Performance - AH, D1 3
PAS 356 History of the African-American Theatre - AH, D1, WR 3
PAS 363 Civil Rights and the Law II 3
PAS 367 Black Dramatic Literature - AH, D1 3
PAS 369 Music and the Black Arts Movement 3
PAS 370 Hip-Hop Culture and Its Impact 3
PAS 371 Music of the Global Black Revolt 3
PAS 372 Black Music and Identity in the 1960s 3
PAS 378 The African-American Experience 3
PAS 381 African Art: A Survey 3
PAS 390 Independent Study 3
PAS 499 PAS Senior Honors Theses - CUE, WR 3
PAS 509 Advanced Contemporary Trends in African-American Art 3
PAS 510 Advanced Topics in Afro-American and African Studies 3
PAS 516 African-American Philosophy 3
PAS 521 Religions of the African Diaspora 3
PAS 530 The Life and Times of Malcolm X 3
PAS 546 African Languages in the Diaspora 3
PAS 547 Language, Race, Class and Gender 3
PAS 550 African Popular Culture 3
PAS 551 Studies in African-American Literature 3
PAS 557 African Philosophy 3
PAS 567 Post-Colonial Voices: Writing "Experience" in African Literature - WR 3
PAS 575 Genre Studies in African-American Literature 3
PAS 577 The Harlem Renaissance 3
PAS 578 The Music of the Black Church 3
PAS 581 Pan-African Art: Form and Content 3

Pan-African Studies Subfields

Cultural Studies

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<td>PAS 227</td>
<td>Survey of American Diversity</td>
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<td>PAS 305</td>
<td>Legal Lynchings: A Survey of Race, Law, and the American Justice System</td>
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<td>PAS 319</td>
<td>African-American History I - D1, SBH</td>
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<tr>
<td>PAS 320</td>
<td>African-American History II - D1, SBH</td>
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<tr>
<td>PAS 322</td>
<td>The History of the Civil Rights Movement, 1900 to Present</td>
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<td>PAS 329</td>
<td>Slave Trade and Slavery</td>
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<tr>
<td>PAS 335</td>
<td>Survey of African-American Education - D1, SB</td>
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<tr>
<td>PAS 360</td>
<td>African Diaspora in the Caribbean and Latin America</td>
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<tr>
<td>PAS 374</td>
<td>The Black Power Movement</td>
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### Social Studies

(courses can only be used in one area)

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<td>Introduction to Pan-African Studies - D1, SB</td>
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<td>PAS 204</td>
<td>Introduction to African Studies</td>
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<td>PAS 205</td>
<td>Race, Color and Consciousness - D1, SB</td>
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<td>PAS 206</td>
<td>Introduction to Caribbean Studies - D2, SB</td>
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<td>PAS 301</td>
<td>Social Sciences Special Topics in Pan-African Studies</td>
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<td>PAS 305</td>
<td>Legal Lynchings: A Survey of Race, Law, and the American Justice System</td>
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<td>PAS 310</td>
<td>African-American Art I: From West Africa to 1920s</td>
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<td>PAS 312</td>
<td>African Americans in American Media</td>
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<td>PAS 313</td>
<td>Urban Ritual Violence</td>
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<td>PAS 314</td>
<td>Black Psychology</td>
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<td>PAS 318</td>
<td>African-American Cultural Traditions</td>
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<td>PAS 319</td>
<td>African-American History I - D1, SB</td>
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<td>African-American History II - D1, SB</td>
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<td>PAS 322</td>
<td>The History of the Civil Rights Movement, 1900 to Present</td>
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<td>PAS 324</td>
<td>Politics, Political Violence and Black Resistance</td>
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<td>PAS 325</td>
<td>Politics of Black Male Identity in Post-Modern America</td>
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<td>PAS 326</td>
<td>Black Political Thought: Africa to Afrocentricity</td>
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<td>PAS 327</td>
<td>Politics of the Black Community - D1, SB</td>
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<td>Slave Trade and Slavery</td>
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<td>Color Complex of Black Women</td>
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<td>PAS 332</td>
<td>African-American Women - WR</td>
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<td>PAS 333</td>
<td>Black Student Experience: Issues with Persistence &amp; Inclusion in PWIs - D1, SB</td>
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<td>Survey of African-American Education - D1, SB</td>
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<td>PAS 338</td>
<td>Race and Economics</td>
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<td>PAS 344</td>
<td>Black Lesbian Lives</td>
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<td>PAS 345</td>
<td>Museums, Culture and Nationhood</td>
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<td>PAS 361</td>
<td>Folklore of the African Diaspora</td>
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<td>PAS 362</td>
<td>Civil Rights and the Law I</td>
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<td>PAS 363</td>
<td>Civil Rights and the Law II</td>
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<td>PAS 364</td>
<td>Racism and Sexism - D1, SB</td>
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<td>PAS 366</td>
<td>Inequality and Health: The Black Experience</td>
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<td>PAS 368</td>
<td>Race, Culture, Identity</td>
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<td>PAS 383</td>
<td>Cultures of Africa - D2, SB</td>
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<td>PAS 384</td>
<td>Disease, Ecology and Environmental Management in Africa - WR</td>
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<td>PAS 386</td>
<td>Africa: Environment and Resources</td>
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<td>PAS 390</td>
<td>Independent Study</td>
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<td>PAS 392</td>
<td>Faces of Global Poverty - WR</td>
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<td>PAS 407</td>
<td>Theoretical Perspectives in African-American and Diaspora Studies</td>
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<td>PAS 408</td>
<td>Research Methods in Pan-African Studies - WR</td>
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<td>PAS 409</td>
<td>Pan-African Studies Capstone Seminar - CUE</td>
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<td>PAS 410</td>
<td>Black Feminism in Action</td>
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<td>PAS 412</td>
<td>The Underground Railroad and American Memory</td>
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<td>PAS 499</td>
<td>PAS Senior Honors Theses - CUE, WR</td>
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<td>PAS 505</td>
<td>The Black Atlantic</td>
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<td>PAS 513</td>
<td>U.S. Social Justice Movements</td>
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<td>PAS 514</td>
<td>History of Pan-African Social Thought</td>
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<td>PAS 520</td>
<td>The Black Family - WR</td>
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<td>PAS 526</td>
<td>Black Heritage Preservation</td>
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<td>PAS 529</td>
<td>Teacher Institute on African-American Issues</td>
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<td>PAS 531</td>
<td>Survey of African-American History and Culture for Teachers</td>
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<td>PAS 532</td>
<td>Slave Trade and Slavery</td>
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<td>PAS 540</td>
<td>Pedagogy of African Studies</td>
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<td>PAS 541</td>
<td>Cultural Heritage,Tourism, and Globalization</td>
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<td>PAS 542</td>
<td>Black Women's Voices - WR</td>
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<td>PAS 545</td>
<td>Southern Women: Black and White</td>
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<td>PAS 566</td>
<td>Race and Gender in Psychological Research</td>
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<td>PAS 590</td>
<td>Studies in African History - WR</td>
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</tbody>
</table>

1. Completion of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Fulfills General Education requirement.
5. Fulfills WR requirement.
6. Pan-African Studies courses focusing on art, music, literature, philosophy or religion
7. Pan-African Studies courses focusing on African American, African and African Diaspora history
8. Pan-African Studies courses focusing on race, gender, family, health, psycho-social, geography, economics, education, or politics
Other than Department of Pan-African Studies, of which 6 hours must be at the 300 level or above

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

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10. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Flight Plan

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<thead>
<tr>
<th>Course</th>
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<tr>
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<td>GEN 100 or GEN 101</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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<td>Foreign Language 1</td>
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<td><strong>Hours</strong></td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBI</td>
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<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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<td>PAS Historical Studies Course</td>
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<tr>
<td><strong>Hours</strong></td>
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Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Pan-African Studies (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Pan-African Studies (PAS BS)

Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)
Department: Pan-African Studies (http://louisville.edu/panafricanstudies)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Program Information

The Department of Pan-African Studies has developed a Bachelor of Arts and a Bachelor of Science degree. This provides an opportunity for structured undergraduate study in the multi-disciplinary field of Pan-African Studies. Students also have the choice of earning a minor in Pan-African Studies as well.

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Degree Summary

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<thead>
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1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

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The following courses are required by the program and satisfy the respective General Education Requirement(s):

- PAS 200 Introduction to Pan-African Studies - D1, SB

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

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<td>GEN 100 Student Success Center Orientation</td>
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<td>or GEN 101 Arts and Sciences Orientation</td>
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<td>Electives in Humanities or Natural Sciences at the 300 level or above</td>
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<td>WR—two approved courses at the 300 level or above</td>
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Minimum Total Hours | 13-15

Program/Major Requirements

<table>
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<th>Code</th>
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<tr>
<td></td>
<td>Department of Pan-African Studies Core Courses</td>
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<td></td>
<td>PAS 200 Introduction to Pan-African Studies - D1, SB</td>
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<td>Pan-African Studies: additional courses at 200 level</td>
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<td>PAS 408 Research Methods in Pan-African Studies - WR</td>
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<td>PAS 409 Pan-African Studies Capstone Seminar - CUE</td>
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<tr>
<td></td>
<td>PAS 500 Cooperative Internship in Pan-African Studies</td>
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<tr>
<td></td>
<td>or PAS 586 Field Research</td>
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<tr>
<td></td>
<td>Pan-African Studies elective courses (3 hours must be at the 500 level)</td>
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Pan-African Studies Subfields (see course lists below)

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<tr>
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<td>Historical Studies</td>
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<td>Social Studies</td>
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### Supporting Courses

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<td>PAS 210</td>
<td>Introduction to Pan-African Literature - AH, D2</td>
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<tr>
<td>PAS 214</td>
<td>African-American Music - AH, D1</td>
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<td>PAS 217</td>
<td>Introduction to Indigenous Religions of Africa, the Americas and the Pacific Basin</td>
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<td>PAS 218</td>
<td>Survey of American Jazz - AH, D1</td>
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<tr>
<td>PAS 219</td>
<td>Survey of Brazilian Music</td>
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<td>PAS 247</td>
<td>Language, Protest and Identity - D1, SB</td>
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<td>PAS 272</td>
<td>Reggae Music &amp; the Politics of Black Liberation - AH, D2</td>
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<td>PAS 273</td>
<td>The Rhythm and Blues Revolution and American Culture - AH, D1</td>
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<tr>
<td>PAS 300</td>
<td>Humanities Special Topics in Pan-African Studies</td>
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<tr>
<td>PAS 308</td>
<td>Contemporary Trends in African-American Art - WR</td>
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<tr>
<td>PAS 310</td>
<td>African-American Art I: From West Africa to 1920s</td>
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<td>PAS 311</td>
<td>African-American Art History II: From the 1920s to Present</td>
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<td>PAS 315</td>
<td>Theatre of the African World - AH, D2</td>
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<td>PAS 317</td>
<td>African-American Religion - AH, D1</td>
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<td>Women in African-American Religion</td>
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<td>PAS 340</td>
<td>African-American Literature - AH, D1</td>
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<td>Black Film and Literature - AH, D1</td>
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<td>Black Women Novelists - AH, D2, WR</td>
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<td>African Languages in the Diaspora - D1, SB</td>
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<td>PAS 348</td>
<td>Aesthetic in the Africana Community</td>
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<td>African Americans and Islam</td>
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<td>PAS 350</td>
<td>African-American Women in Theatre - AH, D1, WR</td>
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<td>Survey of African Religion and Culture</td>
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<td>PAS 353</td>
<td>Acting the Black Experience - AH, D1</td>
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<td>Cultural Diversity in Performance - AH, D1</td>
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<td>PAS 363</td>
<td>Civil Rights and the Law II</td>
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<td>PAS 367</td>
<td>Black Dramatic Literature - AH, D1</td>
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Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

### Pan-African Studies Subfields

#### Cultural Studies

(courses can only be used in one area)

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<td>Music and the Black Arts Movement</td>
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<td>PAS 370</td>
<td>Hip-Hop Culture and Its Impact</td>
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<td>PAS 371</td>
<td>Music of the Global Black Revolt</td>
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<td>Black Music and Identity in the 1960s</td>
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<td>The African-American Experience</td>
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<td>PAS 381</td>
<td>African Art: A Survey</td>
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<td>Independent Study</td>
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<td>PAS 499</td>
<td>PAS Senior Honors Theses - CUE, WR</td>
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<tr>
<td>PAS 509</td>
<td>Advanced Contemporary Trends in African-American Art</td>
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<td>PAS 510</td>
<td>Advanced Topics in Afro-American and African Studies</td>
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<td>PAS 516</td>
<td>African-American Philosophy</td>
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<td>Religions of the African Diaspora</td>
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<td>The Life and Times of Malcolm X</td>
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<td>Language, Race, Class and Gender</td>
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<td>African Popular Culture</td>
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<td>Studies in African-American Literature</td>
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<td>PAS 557</td>
<td>African Philosophy</td>
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<td>Post-Colonial Voices: Writing &quot;Experience&quot; in African Literature - WR</td>
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<td>Genre Studies in African-American Literature</td>
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<td>PAS 577</td>
<td>The Harlem Renaissance</td>
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<td>PAS 578</td>
<td>The Music of the Black Church</td>
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<td>PAS 581</td>
<td>Pan-African Art: Form and Content</td>
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#### Historical Studies

(courses can only be used in one area)

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<td>Introduction to Philosophy through Cultural Diversity - AH, D2</td>
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<td>PAS 227</td>
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<td>PAS 305</td>
<td>Legal Lynchings: A Survey of Race, Law, and the American Justice System</td>
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<td>PAS 319</td>
<td>African-American History I - D1, SBH</td>
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<td>African-American History II - D1, SBH</td>
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<td>PAS 322</td>
<td>The History of the Civil Rights Movement, 1900 to Present</td>
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<td>Slave Trade and Slavery</td>
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<td>Survey of African-American Education - D1, SB</td>
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<td>PAS 360</td>
<td>African Diaspora in the Caribbean and Latin America</td>
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<td>The Black Power Movement</td>
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<td>Women in Africa: Historical and Literary Perspective</td>
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<td>PAS 393</td>
<td>African History Before 1800 - D2, SBH</td>
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<td>African History Since 1800 - D2, SBH</td>
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<td>History of the Caribbean</td>
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<td>PAS 412</td>
<td>The Underground Railroad and American Memory</td>
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<td>PAS 499</td>
<td>PAS Senior Honors Theses - CUE, WR</td>
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PAS 513 U.S. Social Justice Movements 3
PAS 514 History of Pan-African Social Thought 3
PAS 526 Black Heritage Preservation 3
PAS 529 Teacher Institute on African-American Issues 3
PAS 530 The Life and Times of Malcolm X 3
PAS 531 Survey of African-American History and Culture for Teachers 3
PAS 532 Slave Trade and Slavery in the African World 3
PAS 533 The History and Popular Culture of the African Diaspora 3
PAS 535 History of African Americans in Kentucky 3
PAS 539 Public History in African Diaspora 3
PAS 545 Southern Women: Black and White 3
PAS 548 Black Museums and Cultural Heritage 3
PAS 549 African Americans in Louisville, Kentucky 3
PAS 590 Studies in African History - WR 3

Social Studies
(courses can only be used in one area)

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<td>Race, Color and Consciousness - D1, SB</td>
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<td>Introduction to Caribbean Studies - D2, SB</td>
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<td>Social Sciences Special Topics in Pan-African Studies</td>
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<td>Legal Lynchings: A Survey of Race, Law, and the American Justice System</td>
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<td>African-American Art I: From West Africa to 1920s</td>
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<td>African Americans in American Media</td>
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<td>Urban Ritual Violence</td>
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<td>Black Psychology</td>
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<td>Politics of Black Male Identity in Post-Modern America</td>
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<td>Black Student Experience: Issues with Persistence &amp; Inclusion in PWIs - D1, SB</td>
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<td>Black Lesbian Lives</td>
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<td>Cultures of Africa - D2, SB</td>
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<td>Disease, Ecology and Environmental Management in Africa - WR</td>
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<td>PAS 392</td>
<td>Faces of Global Poverty - WR</td>
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<td>Teacher Institute on African-American Issues</td>
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<td>Race and Gender in Psychological Research</td>
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1. Completion of the second semester of a single foreign language; hours will vary depending on the language taken
2. In addition to courses counted toward General Education
3. May be incorporated into other degree requirements
4. Fulfills General Education requirement.
5. Fulfills WR requirement.
6. Pan-African Studies courses focusing on art, music, literature, philosophy, or religion
7. Pan-African Studies courses focusing on African American, African, and African Diaspora history
8. Pan-African Studies courses focusing on race, gender, family, health, psycho-social, geography, economics, education, or politics
9. 6 hours must be at the 300 level or above
10. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
Flight Plan

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<tr>
<td>Hours</td>
<td></td>
<td>16</td>
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<tr>
<td>Spring</td>
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</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
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<tr>
<td>Humanities or Social Science Elective</td>
<td>3</td>
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<td>PAS Social Studies Course</td>
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<td></td>
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<tr>
<td>PAS Historical Studies Course</td>
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<tr>
<td>General Elective</td>
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<td></td>
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<tr>
<td>Hours</td>
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<tr>
<td>Year 3</td>
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<tr>
<td>Fall</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Humanities or Social Science Elective</td>
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<tr>
<td>PAS Cultural Studies Course</td>
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<tr>
<td>PAS Social Studies Course</td>
<td>3</td>
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<td>PAS 408</td>
<td>Research Methods in Pan-African Studies - WR</td>
<td>3</td>
</tr>
<tr>
<td>Hours</td>
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<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
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<tr>
<td>Humanities or Natural Science Elective</td>
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<td>Humanities or Natural Science WR Elective (300 level or above)</td>
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<tr>
<td>PAS 500</td>
<td>Cooperative Internship in Pan-African Studies or Field Research</td>
<td>3-6</td>
</tr>
<tr>
<td>PAS 409</td>
<td>Pan-African Studies Capstone Seminar - CUE</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<td></td>
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<tr>
<td>Hours</td>
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<td>Year 4</td>
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<tr>
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<tr>
<td>Humanities or Social Science Course</td>
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<td>PAS Elective</td>
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<tr>
<td>PAS Elective</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Hours</td>
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<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAS Capstone Elective (500 level or above)</td>
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<tr>
<td>PAS Elective (200 level)</td>
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</table>

Minimum Total Hours 121-124

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Paralegal Studies (AA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Associate of Arts in Paralegal Studies (PRLSAA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Political Science (http://www.louisville.edu/a-s/polsci)

The Associate of Arts Program in Paralegal Studies is not currently accepting applications for Admission.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
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<tr>
<td>Program/Major Requirements</td>
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<td>31</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>63</td>
</tr>
</tbody>
</table>
Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives may be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Completion of this degree requires work to be submitted for the program’s Learning Outcomes Measurement. For details, contact the program director (http://louisville.edu/politicalscience/paralegal).

Completion of this degree also requires a 2.5 minimum cumulative grade point average and a minimum 2.75 grade point average on courses in Paralegal Studies.

The Paralegal Studies Program utilizes the university-wide policy regarding transfer credits for all courses. However, the program maintains the following policy for the transfer of legal specialty course credits from other institutions:

1. No more than 6 semester hours will be permitted to be transferred as paralegal specialty courses (either paralegal core or paralegal electives).
2. The courses must be taken in a traditional classroom setting (i.e. no online courses will be accepted).
3. The courses must apply to the established curricula of the Paralegal Studies Program.
4. Students are required to indicate whether the institution is ABA approved.
5. Students must provide a syllabus or similar comprehensive summary of the completed course.
6. Students must provide official transcripts.

It is the responsibility of the transferring student to request an evaluation of credits prior to course enrollment; to request an official transcript from the transferring institution; to submit the necessary materials, including copies of the appropriate catalog and/or syllabus describing courses previously taken, and to pursue the status of that evaluation upon enrollment. The student must have completed the admissions process before transfer credits are officially evaluated.

NOTE: Upon being accepted into the Paralegal Studies Program, students are required to take at least 10 semester hours of legal specialty courses in a traditional classroom setting.

Departmental Admission Requirements

The Associate of Arts Program in Paralegal Studies is not currently accepting applications for Admission.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- POLS 201 Introduction to American Government and Politics - SB

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEN 100</td>
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<td>or GEN 101</td>
<td>General Education</td>
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</table>

WR—one approved course at the 300 level or above

Minimum Total Hours 1

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>PARA 101</td>
<td>Legal Systems and the Paralegal</td>
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<tr>
<td>PARA 102</td>
<td>Legal Research and Writing</td>
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<tr>
<td>PARA 203</td>
<td>Advanced Legal Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PARA 399</td>
<td>Professional Ethics for Paralegals</td>
<td>1</td>
</tr>
<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
<td>3</td>
</tr>
<tr>
<td>PARA 390</td>
<td>Paralegal Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select five of the following: 15

- PARA 305 | Family Law |
- PARA 310 | Torts for Paralegals |
- PARA 320 | Computers and the Law |
- PARA 325 | Litigation |
- PARA 326 | Criminal Litigation |
- PARA 340 | Business Associations and Transactions |
- PARA 350 | Wills, Estates and Trusts |
- PARA 360 | Consumer Law |
- PARA 370 | Real Estate Law for Paralegals |
- PARA 391 | Topics in Paralegal Studies |

Minimum Total Hours 31

Completion of this degree also requires a 2.5 minimum cumulative grade point average and a minimum 2.75 grade point average on courses in Paralegal Studies.

No more than 6 semester hours from another institution will be permitted to be transferred as paralegal specialty courses (either paralegal core or paralegal electives). Other conditions may apply to transfer credits (see Overview).

1. May be incorporated into other degree requirements
2. Fulfills General Education requirement
3. Required of students with no paralegal background
Philosophy (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Philosophy (PHILBA)
Unit: College of Arts and Sciences (http://www.louisville.edu/a-s) Department: Philosophy (http://louisville.edu/philosophy)

Program Information
The Department of Philosophy offers a wide range of introductory to graduate-level courses in the major subject areas and various traditions of philosophy, with particular strengths in applied ethics and social/political philosophy. The interdisciplinary scope of most of its courses is one of the Department’s most salient features. The Department’s faculty has achieved exceptional research productivity and outstandingly high student evaluations.

Completion of this degree requires work to be submitted for the program’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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</tr>
<tr>
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<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
<td>21</td>
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<td>Track Requirements</td>
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</table>

Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Arts &amp; Sciences Requirements</td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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<tr>
<td>Foreign Language</td>
<td>12</td>
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<tr>
<td>Electives in Natural Sciences or Social Sciences</td>
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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>PHI 301</td>
<td>Ancient Philosophy</td>
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<tr>
<td>PHI 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHI 321</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHI 502</td>
<td>Philosophy Capstone Seminar - CUE</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PHI 311</td>
<td>Introduction to Logic</td>
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<tr>
<td>PHI 412</td>
<td>Symbolic Logic</td>
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<tr>
<td>PHI 512</td>
<td>Advanced Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>PHI 315</td>
<td>Asian Philosophy - AH, D2</td>
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<tr>
<td>PHI 318</td>
<td>Philosophy and Feminism - AH, D1</td>
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<tr>
<td>PHI 319</td>
<td>Philosophy of Race and Racism - AH, D1</td>
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<td>PHI 516</td>
<td>African-American Philosophy</td>
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<tr>
<td>PHI 518</td>
<td>Feminist Philosophical Literature</td>
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<tr>
<td>PHI 519</td>
<td>Topics in Philosophy of Race and Racism</td>
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</tr>
<tr>
<td>PHI 557</td>
<td>African Philosophy</td>
<td></td>
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<td>Track Requirements</td>
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<tr>
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</table>
A minimum of 9 credit hours in Philosophy (PHIL) must be at the 500-level.

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

**Track in Humanities (PHILBA HUM)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHIL 306</td>
<td>Nineteenth-Century Philosophy</td>
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<tr>
<td>PHIL 307</td>
<td>Twentieth-Century Philosophy</td>
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<tr>
<td>Select one of the following:</td>
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<td></td>
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<tr>
<td>PHIL 308</td>
<td>Social and Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 317</td>
<td>The Nature of Violence</td>
<td></td>
</tr>
<tr>
<td>PHIL 328</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 331</td>
<td>Philosophy of the Arts</td>
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</tr>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td>PHIL 521</td>
<td>Ethical Theory - WR</td>
<td></td>
</tr>
<tr>
<td>PHIL 522</td>
<td>Virtue Ethics - WR</td>
<td></td>
</tr>
<tr>
<td>PHIL 524</td>
<td>Philosophies of Peace</td>
<td></td>
</tr>
<tr>
<td>PHIL 531</td>
<td>Aesthetics</td>
<td></td>
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<tr>
<td>PHIL 535</td>
<td>Political Philosophy</td>
<td></td>
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<tr>
<td>PHIL 538</td>
<td>Critical Social Theory</td>
<td></td>
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<tr>
<td>PHIL 581</td>
<td>Current Controversies in Health Care Ethics</td>
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<tr>
<td>PPE 300</td>
<td>Introduction to Philosophy, Politics, and Economics - SB</td>
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**Supporting Courses**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HUM 591</td>
<td>Perspectives on Ancient Culture - WR</td>
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<tr>
<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
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<tr>
<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
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</tr>
<tr>
<td>HUM 594</td>
<td>Perspectives on Modern Culture - WR</td>
<td></td>
</tr>
<tr>
<td>HUM 595</td>
<td>Principles of Cultural History - WR</td>
<td></td>
</tr>
<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
<td>1</td>
</tr>
</tbody>
</table>

Select two at 300 level and one at 400 level from the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ANTH 340</td>
<td>Human Rights</td>
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<tr>
<td>ANTH 351</td>
<td>Medical Anthropology</td>
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<td>ECON 355</td>
<td>Health Economics</td>
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<tr>
<td>SOC 342</td>
<td>Medical Sociology</td>
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</tr>
<tr>
<td>SOC 410</td>
<td>Sociology of Aging - CUE</td>
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</tr>
<tr>
<td>SOC 415</td>
<td>Sociology of Death &amp; Dying - CUE</td>
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</tr>
<tr>
<td>SOC 442</td>
<td>Sociology of Disabilities</td>
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</tr>
</tbody>
</table>

Electives in Humanities Division, other than Philosophy, at 300 level or above 9

Minimum Electives 14

Minimum Total Hours 47

**Track in Social Sciences (PHILBA SSC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 306</td>
<td>Nineteenth-Century Philosophy</td>
<td>3</td>
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<tr>
<td>PHIL 307</td>
<td>Twentieth-Century Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 308</td>
<td>Social and Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 317</td>
<td>The Nature of Violence</td>
<td></td>
</tr>
<tr>
<td>PHIL 328</td>
<td>Environmental Ethics</td>
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</tr>
<tr>
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<td>Philosophy of the Arts</td>
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<td>PHIL 350</td>
<td>Philosophy of Law</td>
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</tr>
<tr>
<td>PHIL 521</td>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>PHIL 524</td>
<td>Philosophies of Peace</td>
<td></td>
</tr>
<tr>
<td>PHIL 531</td>
<td>Aesthetics</td>
<td></td>
</tr>
<tr>
<td>PHIL 535</td>
<td>Political Philosophy</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Electives 14

Minimum Total Hours 47
PHIL 538  Critical Social Theory
PHIL 581  Current Controversies in Health Care Ethics
PPE 300  Introduction to Philosophy, Politics, and Economics - SB

Supporting Courses
Electives in Social Sciences Division at 300 level or above  23  6
Electives in Social Sciences Division at 400 level or above  3  6
Minimum Electives  29

Minimum Total Hours  47

1  Fulfills WR requirement.
2  It is strongly recommended that three hours be devoted to each of “theory” and “methods” as defined by a particular social science discipline. Student should seek advising with the departmental undergraduate adviser to determine appropriate courses.
3  In addition to courses counted for General Education or college programmatic requirements.

Flight Plan

Track in Bioethics

Course  Title  Hours
Year 1  Fall
GEN 100  Student Success Center Orientation  1
or GEN 101  or Arts and Sciences Orientation
ENGL 101  Introduction to College Writing - WC  3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH  3
Select one of the following:  3
PHIL 205  Introduction to Philosophy - AH  3
PHIL 206  Introduction to Philosophy through Literature and Film - AH  3
PHIL 211  Critical Thinking - AH  3
PHIL 219  Sex and Values - AH, D1  3
Foreign Language 1  3-4

Hours  14

Year 1  Spring
ENGL 102  Intermediate College Writing - WC  3
Select one of the following:  3
PHIL 311  Introduction to Logic  3
PHIL 412  Symbolic Logic  3
PHIL 512  Advanced Symbolic Logic  3
General Education: Cardinal Core Quantitative Reasoning - QR  3-4
General Education: Cardinal Core Arts & Humanities Global Diversity (other than Philosophy) - AHD2  3
Foreign Language 2  3-4

Hours  16-17

Year 2  Fall
PHIL 321  Ethics  3
Foreign Language 3  3-4
General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SB1  3
General Education: Cardinal Core Oral Communication - OC  3
General Elective  3

Hours  15-16

Year 2  Spring
PHIL 323  Medical Ethics  3
General Elective  3

Social Science or Natural Science elective (300 level or above)  3
Humanities elective (300 level or above; non-Philosophy)  3
General Education: Cardinal Core Natural Sciences - S  3
General Education: Cardinal Core Natural Sciences Lab - SL  1

Hours  16

Year 3  Fall
PHIL 301  Ancient Philosophy  3
Bioethics supporting course (300 level or above)  3
Humanities WR elective (300 level or above; non-Philosophy course)  3
General Education: Cardinal Core Natural Sciences - S  3
General Elective  3

Hours  15

Year 3  Spring
PHIL 303  Modern Philosophy  3
Philosophy Bioethics course  3
Social Science or Natural Science elective  3
Humanities WR elective (300 level or above; non-Philosophy course)  3
Bioethics supporting course (300 level or above)  3

Hours  15

Year 4  Fall
PHIL 502  Philosophy Capstone Seminar - CUE  3
PHIL 580  Foundations of Bioethics  3
Select one of the following:  3
PHIL 521  Ethical Theory - WR  3
PHIL 582  Gender, Race, and Culture in Health Care  3
PHIL 583  Health Care, Justice & Community  3
Select one of the following:  3
HUM 591  Perspectives on Ancient Culture - WR  3
HUM 592  Perspectives on Medieval Culture - WR  3
HUM 593  Perspectives on Early Modern Culture - WR  3
HUM 594  Perspectives on Modern Culture - WR  3
HUM 595  Principles of Cultural History - WR  3
HUM 596  Selected Perspectives in Humanities - WR  3
Social Science or Natural Science elective (300 level or above)  3

Hours  15

Year 4  Spring
Select one of the following:  3
PHIL 521  Ethical Theory - WR  3
PHIL 581  Current Controversies in Health Care Ethics  3
PHIL 582  Gender, Race, and Culture in Health Care  3
PHIL 583  Health Care, Justice & Community  3
Bioethics supporting course (500 level or above)  3
Philosophy elective  3
General elective (PHIL 499 recommended for honors students)  3
General elective  3

Hours  15

Minimum Total Hours  121-123

Track in Humanities

Course  Title  Hours
Year 1  Fall
GEN 100  Student Success Center Orientation  1
or GEN 101  or Arts and Sciences Orientation
ENGL 101  Introduction to College Writing - WC  3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH  3
General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SB1  3
General Education: Cardinal Core Oral Communication - OC  3
General Elective  3

Hours  15-16

Year 1  Spring
PHIL 205  Introduction to Philosophy - AH  3
PHIL 211  Critical Thinking - AH  3
PHIL 311  Introduction to Logic  3
PHIL 412  Symbolic Logic  3
PHIL 512  Advanced Symbolic Logic  3
General Education: Cardinal Core Quantitative Reasoning - QR  3-4
General Education: Cardinal Core Arts & Humanities Global Diversity (other than Philosophy) - AHD2  3
Foreign Language 2  3-4

Hours  16-17

Year 2  Fall
PHIL 321  Ethics  3
Foreign Language 3  3-4
General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SB1  3
General Education: Cardinal Core Oral Communication - OC  3
General Elective  3

Hours  15-16

Year 2  Spring
PHIL 323  Medical Ethics  3
General Elective  3

Social Science or Natural Science elective (300 level or above)  3
Humanities elective (300 level or above; non-Philosophy)  3
General Education: Cardinal Core Natural Sciences - S  3
General Education: Cardinal Core Natural Sciences Lab - SL  1

Hours  16

Year 3  Fall
PHIL 301  Ancient Philosophy  3
Bioethics supporting course (300 level or above)  3
Humanities WR elective (300 level or above; non-Philosophy course)  3
General Education: Cardinal Core Natural Sciences - S  3
General Elective  3

Hours  15

Year 3  Spring
PHIL 303  Modern Philosophy  3
Philosophy Bioethics course  3
Social Science or Natural Science elective  3
Humanities WR elective (300 level or above; non-Philosophy course)  3
Bioethics supporting course (300 level or above)  3

Hours  15

Year 4  Fall
PHIL 502  Philosophy Capstone Seminar - CUE  3
PHIL 580  Foundations of Bioethics  3
Select one of the following:  3
PHIL 521  Ethical Theory - WR  3
PHIL 581  Current Controversies in Health Care Ethics  3
PHIL 582  Gender, Race, and Culture in Health Care  3
PHIL 583  Health Care, Justice & Community  3
Select one of the following:  3
HUM 591  Perspectives on Ancient Culture - WR  3
HUM 592  Perspectives on Medieval Culture - WR  3
HUM 593  Perspectives on Early Modern Culture - WR  3
HUM 594  Perspectives on Modern Culture - WR  3
HUM 595  Principles of Cultural History - WR  3
HUM 596  Selected Perspectives in Humanities - WR  3
Social Science or Natural Science elective (300 level or above)  3

Hours  15

Year 4  Spring
Select one of the following:  3
PHIL 521  Ethical Theory - WR  3
PHIL 581  Current Controversies in Health Care Ethics  3
PHIL 582  Gender, Race, and Culture in Health Care  3
PHIL 583  Health Care, Justice & Community  3
Bioethics supporting course (500 level or above)  3
Philosophy elective  3
General elective (PHIL 499 recommended for honors students)  3
General elective  3

Hours  15

Minimum Total Hours  121-123

University of Louisville  359
PHIL 206 Introduction to Philosophy through Literature and Film - AH
PHIL 211 Critical Thinking - AH
PHIL 219 Sex and Values - AH, D1

Foreign Language 1 3-4

Hours 13-14

Spring
ENGL 102 Intermediate College Writing - WC 3

Select one of the following: 3
- PHIL 311 Introduction to Logic
- PHIL 412 Symbolic Logic

Foreign Language 2 3-4

General Education: Cardinal Core Arts & Humanities Global Diversity (other than Philosophy) - AHD2 3

General Education: Cardinal Core Quantitative Reasoning - QR 3-4

Hours 16-17

Year 2
Fall
PHIL 301 Ancient Philosophy 3

Foreign Language 3 3-4

General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SBD1 3

General Education: Cardinal Core Oral Communication - OC 3

General Elective 3

Hours 16

Spring
PHIL 303 Modern Philosophy 3

PHIL 321 Ethics 3

General Elective 3

Humanities elective (300 level or above; non-Philosophy course) 3

General Education: Cardinal Core Natural Sciences - S 3

General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 16

Year 3
Fall
Select one of the following: 3
- PHIL 306 Nineteenth-Century Philosophy
- PHIL 307 Twentieth-Century Philosophy

Metaphysics/Epistemology course 3

Humanities WR elective (300 level or above; non-Philosophy course) 3

General Education: Cardinal Core Natural Sciences - S 3

General Elective 3

Hours 15

Spring
Philosophy WR elective (300 level or above) 3

Normative Philosophy course 3

Social Science or Natural Science elective (300 level or above) 3

Social Science or Natural Science elective 3

General elective 3

Hours 15

Year 4
Fall
PHIL 502 Philosophy Capstone Seminar - CUE 3

Select one of the following: 3
- HUM 591 Perspectives on Ancient Culture - WR
- HUM 592 Perspectives on Medieval Culture - WR
- HUM 593 Perspectives on Early Modern Culture - WR
- HUM 594 Perspectives on Modern Culture - WR
- HUM 595 Principles of Cultural History - WR
- HUM 596 Selected Perspectives in Humanities - WR

Cultural Studies course 3

Social Science or Natural Science elective (300 level or above) 3

General elective (PHIL 499 recommended for honors students) 3

Hours 15

Spring
Philosophy elective (500 level or above) 3

General elective 3

General elective 3

General elective 3

General elective 3

Hours 15

Minimum Total Hours 121-123

Track in Social Sciences

Course Title Hours
Year 1
Fall
GEN 100 Student Success Center Orientation 1
or GEN 101 or Arts and Sciences Orientation 3
ENGL 101 Introduction to College Writing - WC 3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3

Select one of the following: 3
- PHIL 205 Introduction to Philosophy - AH
- PHIL 206 Introduction to Philosophy through Literature and Film - AH
- PHIL 211 Critical Thinking - AH
- PHIL 219 Sex and Values - AH, D1

Foreign Language 1 3-4

Hours 14

Spring
ENGL 102 Intermediate College Writing - WC 3
PHIL 311 Introduction to Logic 3
or PHIL 412 Symbolic Logic 3

Foreign Language 2 3-4

General Education: Cardinal Core Arts & Humanities Global Diversity (other than Philosophy) - AHD2 3

General Education: Cardinal Core Quantitative Reasoning - QR 3-4

Hours 16

Year 2
Fall
PHIL 301 Ancient Philosophy 3

Foreign Language 3 3-4

General Education: Cardinal Core Social & Behavioral Sciences US Diversity - SBD1 3

General Education: Cardinal Core Oral Communication - OC 3

General Elective 3

Hours 15

Spring
Philosophy WR elective (300 level or above) 3

Normative Philosophy course 3

Social Science or Natural Science elective (300 level or above) 3

Social Science or Natural Science elective 3

General elective 3

Hours 15-16

Year 3
Fall
PHIL 303 Modern Philosophy 3

PHIL 321 Ethics 3

General Elective 3

Social Science elective (300 level or above) 3

General Education: Cardinal Core Natural Sciences - S 3

General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 16

Spring
PHIL 306 Nineteenth-Century Philosophy 3
or PHIL 307 or Twentieth-Century Philosophy 3

Metaphysics/Epistemology course 3

Social Science elective (400 level or above) 3

General Education: Cardinal Core Natural Sciences - S 3

Hours 15

Year 3
Fall
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Physics (PHYSBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Physics and Astronomy (http://www.physics.louisville.edu)

Program Information
The Bachelor of Arts (BA) degree in Physics is designed for substantial pre-professional education for such fields as medicine, patent law, teaching, technical writing, and technical sales. Students preparing for secondary school science teaching may choose electives to help fulfill teaching certification requirements.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<td>College/School Requirements</td>
<td>22</td>
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<tr>
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<td>Program/Major Requirements</td>
<td>68</td>
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<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
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</table>

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can be taken to fulfill the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td></td>
</tr>
<tr>
<td>or BIOL 240</td>
<td>Unity of Life - S</td>
<td></td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td></td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td></td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 31

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting
coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
<td>12</td>
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<tr>
<td>Electives in Humanities or Social Sciences</td>
<td>3</td>
<td>9</td>
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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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Minimum Total Hours: 22

### Program/Major Requirements

#### Department of Physics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
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<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
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<td>PHYS 350</td>
<td>Differential Equations for the Physical Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 530</td>
<td>Thermal Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- PHYS 430 Practicum in Physics Education - CUE
- PHYS 496 Senior Seminar in Physics - CUE, WR
- PHYS 497 Senior Thesis in Physics - CUE, WR
- PHYS 499 Cooperative Internship in Physics - CUE

Minimum Electives at the 300 level or above: 6

#### Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
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<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>5</td>
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<tr>
<td>&amp; BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td>GEO 301</td>
<td>Geology for Scientists and Engineers</td>
<td>3</td>
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</table>

Minimum Total Hours: 68

#### Minimum Hours Required for Degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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Minimum Total Hours: 121

### Flight Plan

#### Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
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<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
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<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
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<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
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</table>

Minimum Total Hours: 16

#### Year 2

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tr>
<td>MATH 301</td>
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<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
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<tr>
<td>PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>1</td>
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<tr>
<td>Foreign Language</td>
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<td>4</td>
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</tbody>
</table>

Minimum Total Hours: 16

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences US Diversity - SBD1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
<td></td>
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<tr>
<td>General Elective (300 level or above)</td>
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<td></td>
</tr>
<tr>
<td>Foreign Language 2</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 16

At least 50 of the total minimum hours required must be at the 300 level or above.

#### Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing one of the following:

- PHYS 430 Practicum in Physics Education - CUE
- PHYS 496 Senior Seminar in Physics - CUE, WR
- PHYS 497 Senior Thesis in Physics - CUE, WR
- PHYS 499 Cooperative Internship in Physics - CUE

1. Ten credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.
2. Completion of the intermediate level of a single foreign language.
3. In addition to courses counted toward General Education, 6 hours must be at the 300 level or above.
4. May be incorporated into other degree requirements.
University of Louisville

Year 3

Fall

PHYS 350  Differential Equations for the Physical Sciences  4
Physics Elective (300 level or above)  3
Foreign Language  4
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH  3
Humanities or Social Science Elective (300 level or above)  3
BIOL 244  Principles of Biology Laboratory - SL  2

Hours  19

Spring

GEOS 301  Geology for Scientists and Engineers  3
PHYS 460  Mechanics  3
Foreign Language 4 (if needed) or General Elective  3
Physics Elective (300 level or above)  3
Humanities or Social Science WR elective (300 level or above)  3

Hours  15

Year 4

Fall

PHYS 541  Electromagnetic Fields  3
Select one of the following:  3
PHYS 430  Practicum in Physics Education - CUE
PHYS 496  Senior Seminar in Physics - CUE, WR
PHYS 497  Senior Thesis in Physics - CUE, WR
PHYS 499  Cooperative Internship in Physics - CUE
Humanities or Social Science WR elective (300 level or above)  3
General Elective (300 level or above)  3

Hours  12

Spring

General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2  3
General Elective  3
General Elective (300 level or above)  2
General Elective (300 level or above)  3
PHYS 530  Thermal Physics  3

Hours  14

Minimum Total Hours  125

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Physics (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Physics (PHYSBS)

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Physics and Astronomy (http://www.physics.louisville.edu)

Program Information

The Bachelor of Science (BS) degree is intended as preparation for entry into graduate programs in Physics and other scientific or engineering fields. It also provides suitable training for entering the workforce in a technical position.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
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<td>65-68</td>
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<td></td>
<td>Track Requirements</td>
<td>9-10</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
</tr>
</tbody>
</table>

1 Twelve credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BS/MS (Master of Science) in Physics Program

The Department of Physics and Astronomy also offers a five-year accelerated program leading to a Bachelor of Science degree and Master of Science degree in Physics. Interested students should apply for admission to the program in the first semester of the senior year (i.e., after completing 90 hours).
Applicants must completed at least 21 credit hours in Physics before applying to the program with at least a 3.0 GPA in Physics courses and a 3.35 university GPA. Students take up to nine (9) credit hours in 500-level physics courses for graduate credit that may be applied to both degrees. Two of the courses must be PHYS 542 and PHYS 556; preferably, these courses will be taken during the same semester in the student’s senior year. Students must also maintain a 3.0 GPA after they are admitted to the BS/MS program.

Departmental Admission Requirements

There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BS/MS (Master of Science) in Physics Program

Applicants apply for admission to the five-year accelerated program in the first semester of the senior year and must meet the following criteria:

- The applicant will have completed at least 21 credit hours in Physics before applying to the program.
- The applicant will have maintained at least a 3.0 GPA in Physics courses and a 3.35 GPA overall.

All applicants must submit an application along with GRE General test score consistent with MS in Physics program (p. 1017) guidelines.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and should be taken to fulfill the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 31

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>6-8</td>
</tr>
<tr>
<td>Electives in Humanities or Social Sciences at 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
<td>4</td>
<td></td>
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</table>

Minimum Total Hours 13-15

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 351</td>
<td>Atomic and Nuclear Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 350</td>
<td>Differential Equations for the Physical Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 530</td>
<td>Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 541</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 555</td>
<td>Elementary Quantum Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Undergraduate Experience (CUE) Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 430</td>
<td>Practicum in Physics Education - CUE (CUE)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 496</td>
<td>Senior Seminar in Physics - CUE, WR (CUE)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 497</td>
<td>Senior Thesis in Physics - CUE, WR (CUE)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 499</td>
<td>Cooperative Internship in Physics - CUE (CUE)</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional, or Astronomy and Astrophysics, or Applied Track (see track tab for requirements)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
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</table>

Minimum Electives 1, 5 12-15

Minimum Total Hours 74-78

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Minimum Days Required for Degree</td>
<td>121</td>
</tr>
</tbody>
</table>

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Culminating Undergraduate Experience (Graduation requirement)</td>
<td></td>
</tr>
</tbody>
</table>

Requirement fulfilled by completing one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 430</td>
<td>Practicum in Physics Education - CUE</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 496</td>
<td>Senior Seminar in Physics - CUE, WR</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 497</td>
<td>Senior Thesis in Physics - CUE, WR</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 499</td>
<td>Cooperative Internship in Physics - CUE</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Ten (10) credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

2 Completion of the intermediate level of a single foreign language.
In addition to courses counted toward General Education, 6 hours must be at the 300 level or above.

May be incorporated into other degree requirements

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

**Track Requirements**

**Track in Applied Physics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>PHYS 308</td>
<td>Observational Astronomy</td>
<td></td>
</tr>
<tr>
<td>PHYS 356</td>
<td>Optics Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 546</td>
<td>Advanced Optics Lab</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 542</td>
<td>Electromagnetic Radiation</td>
<td></td>
</tr>
<tr>
<td>PHYS 545</td>
<td>Advanced Optics</td>
<td></td>
</tr>
<tr>
<td>PHYS 547</td>
<td>Fundamentals of Lasers</td>
<td></td>
</tr>
<tr>
<td>PHYS 556</td>
<td>Quantum Theory of Matter</td>
<td></td>
</tr>
<tr>
<td>PHYS 565</td>
<td>Computational Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 570</td>
<td>Atomic and Molecular Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 575</td>
<td>Solid State Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 580</td>
<td>Nuclear Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 585</td>
<td>Elementary Particle Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 589</td>
<td>General Relativity</td>
<td></td>
</tr>
<tr>
<td>PHYS 590</td>
<td>Astrophysics</td>
<td></td>
</tr>
<tr>
<td>PHYS electives: PHYS courses at 300 level or above to total nine hours beyond core</td>
<td>4-5</td>
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</tbody>
</table>

Minimum Total Hours: 9-10

Alternate choices within or outside of the department are possible with approval.

**Track in Astronomy and Astrophysics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 307</td>
<td>Introductory Stellar Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 308</td>
<td>Observational Astronomy</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 355</td>
<td>Optics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 590</td>
<td>Astrophysics</td>
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</table>

Minimum Total Hours: 10

**Track in Professional**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 542</td>
<td>Electromagnetic Radiation</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 556</td>
<td>Quantum Theory of Matter</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 498</td>
<td>Undergraduate Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 9

**Flight Plan**
### Track in Astronomy and Astrophysics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences US Diversity - SBDI</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
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<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 350</td>
<td>Differential Equations for the Physical Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 351</td>
<td>Atomic and Nuclear Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
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</tr>
<tr>
<td>General Elective</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>17</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
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</tr>
<tr>
<td>PHYS 307</td>
<td>Introductory Stellar Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 308</td>
<td>Observational Astronomy</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 355</td>
<td>Optics</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities or Social Science WR Elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Track in Professional

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
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<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
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<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
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<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Year 2</strong></td>
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<td></td>
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<td><strong>Fall</strong></td>
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<td>MATH 301</td>
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<td>PHYS 301</td>
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<td>CHEM 202</td>
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<tr>
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<td>15</td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 351</td>
<td>Atomic and Nuclear Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>
Political Science (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Political Science (POLLSBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Political Science (http://louisville.edu/politicalscience)

Program Information

Bachelor of Arts in Political Science program at UofL cultivates an understanding of policy, politics and governments in the United States and around the globe. We offer a wide range of courses including campaigns and elections, the Presidency and Congress, social movements and civil rights, terrorism and war, constitutional law, environmental policy, religious politics, urban politics and poverty, and international politics. The department is a particularly inviting environment for students, with small class sizes, our own building, a computer lab, and options to specialize via several tracks in our major.

Political Science majors at the University of Louisville have been extremely successful in earning prestigious scholarships and fellowships. The roster of recent successes includes numerous Fulbright Award winners and multiple Truman Scholars. Since 2010, three of our students have won the annual Mary Churchill Humphrey scholarship, often described as UofL’s Rhodes Scholarship because it supports graduate study in Great Britain. Many of our majors go on to have successful careers in government, international affairs, nongovernmental organizations, business, academia, and media.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>31</td>
</tr>
<tr>
<td></td>
<td>College/School Requirements</td>
<td>22</td>
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<tr>
<td></td>
<td>Program/Major Requirements</td>
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</tr>
<tr>
<td></td>
<td>Track Requirements</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>121</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Political Science offers three BA options (two tracks and one non-track). For all three options, including the non-track, please refer to the Track Requirements tab.

Specific coursework information can be found on the Degree Requirements tab.

**Accelerated BA-BS/MA**

The Department of Political Science also offers its undergraduate majors an opportunity to earn both a BA (or BS) degree and an MA degree at an accelerated pace. This program allows students to complete one semester (9 credit hours) of graduate coursework while enrolled as undergraduate students. Typically, students finish their MA degrees within three semesters of completing their undergraduate degrees.

Applicants must meet the general requirements for admission to the School of Interdisciplinary and Graduate Studies and must submit an application to the Department of Political Science. Applicants should have an undergraduate major or minor in social science or have sufficient alternative preparation in the social sciences.

**Departmental Admission Requirements**

There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
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*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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**Program/Major Requirements**

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<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
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<td>POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
<td>3</td>
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<tr>
<td>POLS 330</td>
<td>International Relations</td>
<td>3</td>
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<tr>
<td>POLS 390</td>
<td>Contemporary Political Research</td>
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<td>Senior Seminar - CUE, WR (CUE)</td>
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**Track Requirements**

Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

**Track in Applied Politics (POLSBA APO)**

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<thead>
<tr>
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<td>POLS 305</td>
<td>Urban Politics</td>
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<tr>
<td>POLS 306</td>
<td>State Government</td>
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<tr>
<td>POLS 311</td>
<td>American Presidency</td>
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</tr>
<tr>
<td>POLS 314</td>
<td>Judicial Politics</td>
<td></td>
</tr>
<tr>
<td>POLS 317</td>
<td>American Congress</td>
<td></td>
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<tr>
<td>POLS 325</td>
<td>Public Administration</td>
<td></td>
</tr>
<tr>
<td>POLS 326</td>
<td>Public Policy</td>
<td></td>
</tr>
<tr>
<td>POLS 331</td>
<td>International Organization - WR</td>
<td></td>
</tr>
</tbody>
</table>

**Political Identity and Behavior**

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1. Completed of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education, 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Fulfills General Education requirement.
5. Substitutions may be approved by the departmental advisor.
6. Fulfills WR requirement.
7. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
Select two of the following:  
- POLS 316 Gender, Sexuality & Law  
- POLS 318 Religion and United States Politics  
- POLS 319 Media and Politics  
- POLS 320 Civil Rights and the Law II  
- POLS 321 Public Opinion  
- POLS 322 American Political Parties and Elections  
- POLS 323 Queer Politics  
- POLS 324 Women in American Politics  
- POLS 327 African American Politics - D1, SB  
- POLS 328 Information Technology and Politics  
- POLS 335 Global Environmental Politics  
- POLS 563 Women in Developing Countries - WR  

**Comparative Politics Area**  
Select two of the following: 
- POLS 304 Comparative Urban Politics  
- POLS 328 Information Technology and Politics  
- POLS 340 Politics and Government of Western Europe  
- POLS 345 Russia and Eurasia - WR  
- POLS 347 Democratization  
- POLS 349 Comparative Political Culture - WR  
- POLS 350 African Government and Politics  
- POLS 355 Introduction to Middle East Politics  
- POLS 356 Political Islam  
- POLS 362 Comparative Political Economy  
- POLS 363 Politics of Oil  
- POLS 366 Politics of East Asia  
- POLS 367 Politics and Government of Southeast Asia  
- POLS 370 Comparative Political Development in Latin America  
- POLS 371 Latin America in the World  
- POLS 402 Topics in Comparative Politics  
- POLS 437 The United States and East Asia - WR  
- POLS 502 Topics in Comparative Politics  
- POLS 563 Women in Developing Countries - WR  

**Experiential Learning**  
Select one of the following: 
- POLS 310 Policy, Community & Service  
- POLS 430 Cooperative Internship in Political Science  
- POLS 465 Chinese Culture  
- POLS 510 Louisville Metro Council Internship  
- POLS 511 Practicum  
- POLS 512 Frankfort Legislative Internship  
- POLS 520 Coping with Conflict  
- POLS 530 International Negotiation  
- POLS Elective  

**Supporting Courses**  
- ECON 202 Principles of Macroeconomics - SB  

**Track in Global Politics and International Affairs (POLSBA GIA)**  

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<td>International Law - WR</td>
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<td>POLS 333</td>
<td>American Foreign Policy</td>
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<td>POLS 334</td>
<td>The Politics of Global Economic Relations</td>
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<td>POLS 335</td>
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<td>POLS 336</td>
<td>Politics of European Integration and Foreign Policy</td>
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<td>POLS 337</td>
<td>Law, Diplomacy and Power</td>
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<td>POLS 339</td>
<td>Terrorism</td>
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<td>POLS 341</td>
<td>Political Violence</td>
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<td>POLS 363</td>
<td>Politics of Oil</td>
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<td>POLS 364</td>
<td>World Order</td>
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<td>POLS 371</td>
<td>Latin America in the World</td>
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<td>POLS 520</td>
<td>Coping with Conflict</td>
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**No Track - Political Science BA (POLSBA)**  
Students in this plan of study are required to take at least one course from each of Political Science’s five subfields.  

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<td>American Presidency</td>
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<td>POLS 312</td>
<td>American Constitutional Law</td>
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<td>POLS 314</td>
<td>Judicial Politics</td>
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<td>POLS 315</td>
<td>Race, Law and Politics - D1, SB</td>
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<td>POLS 316</td>
<td>Gender, Sexuality &amp; Law</td>
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<td>POLS 317</td>
<td>American Congress</td>
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<td>POLS 318</td>
<td>Religion and United States Politics</td>
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<td>Civil Rights and the Law II</td>
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<tr>
<td>POLS 327</td>
<td>African American Politics - D1, SB</td>
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</tbody>
</table>
POLS 401  Topics in American Politics
POLS 501  Topics in American Politics
POLS 507  Topics in Digital Politics

Public Policy 2,3

Choose one of the following:

POLS 302  Urban Political Economy
POLS 304  Comparative Urban Politics
POLS 305  Urban Politics
POLS 310  Policy, Community & Service
POLS 325  Public Administration
POLS 326  Public Policy
POLS 333  American Foreign Policy
POLS 405  Topics in Public Policy
POLS 426  Environmental Policy
POLS 505  Topics in Urban and Public Policy
POLS 510  Louisville Metro Council Internship
POLS 511  Practicum
POLS 512  Frankfort Legislative Internship

International Relations 2,3,4,5

Choose one of the following:

POLS 331  International Organization - WR
POLS 332  International Law - WR
POLS 333  American Foreign Policy
POLS 334  The Politics of Global Economic Relations
POLS 335  Global Environmental Politics
POLS 336  Politics of European Integration and Foreign Policy
POLS 337  Law, Diplomacy and Power
POLS 339  Terrorism
POLS 341  Political Violence
POLS 363  Politics of Oil
POLS 364  World Order
POLS 371  Latin America in the World
POLS 406  Topics in International Relations
POLS 450  Topics in World Affairs
POLS 506  Topics in International Relations
POLS 520  Coping with Conflict
POLS 530  International Negotiation

Comparative Politics 2,4,5

Choose one of the following:

POLS 304  Comparative Urban Politics
POLS 328  Information Technology and Politics
POLS 340  Politics and Government of Western Europe
POLS 345  Russia and Eurasia - WR
POLS 347  Democratization
POLS 349  Comparative Political Culture - WR
POLS 350  African Government and Politics
POLS 355  Introduction to Middle East Politics
POLS 356  Political Islam
POLS 362  Comparative Political Economy
POLS 363  Politics of Oil

POLS 366  Politics of East Asia
POLS 367  Politics and Government of Southeast Asia
POLS 370  Comparative Political Development in Latin America
POLS 371  Latin America in the World
POLS 402  Topics in Comparative Politics
POLS 437  The United States and East Asia - WR
POLS 502  Topics in Comparative Politics
POLS 563  Women in Developing Countries - WR

Political Theory 2

Choose one of the following:

POLS 381  Early Political Thought
POLS 382  Modern Political Thought
POLS 383  American Political Thought
POLS 384  Democracy and Its Critics - WR
POLS 386  Political Theory and Utopia - WR
POLS 387  American Utopian Communities
POLS 388  Contemporary Political Theory
POLS 404  Topics in Political Theory
POLS 504  Topics in Political Theory - WR
POLS 568  Feminist Theory - WR

Political Science Electives 6

Supporting Courses

ECON 202  Principles of Macroeconomics - SB 3

Electives in Social Sciences other than Political Science, with 9 hours at the 300-level or above 15

Minimum Electives 14

Minimum Total Hours 53

1 The department encourages students to satisfy a portion of the elective requirement through completion of experiential learning courses such as POLS 430, POLS 465, POLS 510, POLS 511, POLS 520 or POLS 530.

2 POLS 399 may be an appropriate elective under any category depending on its topic in a given semester. A student must obtain her/his advisor’s approval before attempting to use this course to satisfy an area requirement.

3 POLS 333 may be used as an elective option under Public Policy or International Relations. It may only satisfy one requirement. It may not be used to satisfy both requirements.

4 POLS 341 may be used as an elective option under International Relations and Comparative Politics. It may only satisfy one requirement. It may not be used to satisfy both requirements.

5 POLS 363 may be used as an elective option under International Relations and Comparative Politics. It may only satisfy one requirement. It may not be used to satisfy both requirements.

Flight Plan

No Track - Political Science (BA)

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<td>Student Success Center Orientation or GEN 101 or Arts and Sciences Orientation</td>
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Track in Applied Politics

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<td>Introduction to College Writing - WC</td>
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<td>Introduction to American Government and Politics - SB</td>
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Year 2

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<td>POLS 330</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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Year 3

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<tr>
<td>Social Science elective</td>
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<td>Social Science elective (300 level or above)</td>
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Year 4

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<tr>
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<tr>
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Minimum Total Hours 122-126
Track in Global Politics and International Affairs

<table>
<thead>
<tr>
<th>Course</th>
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<td>Year 1</td>
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<tr>
<td>Fall</td>
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<td>GEN 100</td>
<td>Student Success Center Orientation or GEN 101</td>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
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<td>POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
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<tr>
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<tr>
<td>Hours</td>
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<td>15-16</td>
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<td>Year 2</td>
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<tr>
<td>POLS 330</td>
<td>International Relations</td>
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<td>General Elective</td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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<td>Foreign Language 3</td>
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<tr>
<td>Spring</td>
<td></td>
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<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
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<td>Humanities or Natural Science WR Elective (300 level or above)</td>
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<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<td>Fall</td>
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</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
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<tr>
<td>POLS 390</td>
<td>Contemporary Political Research</td>
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<td>Political Science International Relations course</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
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<tr>
<td>Social Science elective</td>
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<tr>
<td>Hours</td>
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</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Political Science (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Political Science (POLSBS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Political Science (http://louisville.edu/politicalscience)
Program Information

Bachelor of Science in Political Science program at UofL cultivates an understanding of policy, politics and governments in the United States and around the globe. We offer a wide range of courses including campaigns and elections, the Presidency and Congress, social movements and civil rights, terrorism and war, constitutional law, environmental policy, religious politics, urban politics and poverty, and international politics. The department is a particularly inviting environment for students, with small class sizes, our own building, a computer lab, and options to specialize via several tracks in our major.

Political Science majors at the University of Louisville have been extremely successful in earning prestigious scholarships and fellowships. The roster of recent successes includes numerous Fulbright Award winners and multiple Truman Scholars. Since 2010, three of our students have won the annual Mary Churchill Humphrey scholarship, often described as UofL's Rhodes Scholarship because it supports graduate study in Great Britain. Many of our majors go on to have successful careers in government, international affairs, nongovernmental organizations, business, academia, and media.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>31</td>
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<tr>
<td>College/School Requirements</td>
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<td>Program/Major Requirements</td>
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<td>Track Requirements</td>
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<td>51-53</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
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<td>121</td>
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</tbody>
</table>

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA-BS/MA

The Department of Political Science also offers its undergraduate majors an opportunity to earn both a BA (or BS) degree and an MA degree at an accelerated pace. This program allows students to complete one semester (9 credit hours) of graduate coursework while enrolled as undergraduate students. Typically, students finish their MA degrees within three semesters of completing their undergraduate degrees.

Applicants must meet the general requirements for admission to the School of Interdisciplinary and Graduate Studies and must submit an application to the Department of Political Science. Applicants should have an undergraduate major or minor in social science or have sufficient alternative preparation in the social sciences.

Departmental Admission Requirements

There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>Arts &amp; Sciences Requirements</td>
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<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
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</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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</tr>
<tr>
<td>Foreign Language</td>
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<tr>
<td>Electives in Humanities or Natural Sciences at 300 level or above</td>
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<td>6</td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above</td>
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<tr>
<td>Minimum Total Hours</td>
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<td>13-15</td>
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Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>Department of Political Science</td>
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</tr>
<tr>
<td>POLS 325</td>
<td>Public Administration 5</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 326</td>
<td>Public Policy</td>
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<tr>
<td>POLS 390</td>
<td>Contemporary Political Research</td>
<td>3</td>
</tr>
<tr>
<td>POLS 495</td>
<td>Senior Seminar - CUE, WR 6</td>
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<tr>
<td>Law and Jurisprudence Area</td>
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<tr>
<td>Select three courses:</td>
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<tr>
<td>POLS 312</td>
<td>American Constitutional Law</td>
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<tr>
<td>POLS 313</td>
<td>American Constitutional Law</td>
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<tr>
<td>POLS 314</td>
<td>Judicial Politics</td>
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<td>POLS 315</td>
<td>Race, Law and Politics - D1, SB</td>
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<td>POLS 320</td>
<td>Civil Rights and the Law II</td>
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<td>POLS 332</td>
<td>International Law - WR 5</td>
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<td>POLS 337</td>
<td>Law, Diplomacy and Power</td>
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<tr>
<td>Public Policy Area</td>
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<td>Select two courses:</td>
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<tr>
<td>POLS 305</td>
<td>Urban Politics</td>
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<td>POLS 310</td>
<td>Policy, Community &amp; Service</td>
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<td>POLS 325</td>
<td>Public Administration 5</td>
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<tr>
<td>POLS 326</td>
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<td>POLS 333</td>
<td>American Foreign Policy</td>
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<td>POLS 336</td>
<td>Politics of European Integration and Foreign Policy</td>
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<td>POLS 405</td>
<td>Topics in Public Policy</td>
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<td>POLS 426</td>
<td>Environmental Policy</td>
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<td>POLS 505</td>
<td>Topics in Urban and Public Policy</td>
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<tr>
<td>POLS 510</td>
<td>Louisville Metro Council Internship</td>
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<tr>
<td>POLS 512</td>
<td>Frankfort Legislative Internship</td>
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</table>
Track Requirements

Minimum Total Hours 51-53

No more than 6 hours of POLS 430, POLS 510, POLS 511 and/or POLS 512 may count toward the major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td></td>
<td>Culminating Undergraduate Experience (Graduation requirement)</td>
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<tr>
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<td>Requirement fulfilled by completing:</td>
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<td></td>
<td>POLS 495  Senior Seminar - CUE, WR</td>
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<td></td>
<td>Completion of the second semester of a single foreign language; hours will vary depending on the language taken</td>
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<tr>
<td></td>
<td>In addition to courses counted toward General Education</td>
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<tr>
<td></td>
<td>May be incorporated into other degree requirements</td>
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<tr>
<td></td>
<td>Fulfills general education requirement.</td>
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<td>Fulfills WR requirement.</td>
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<tr>
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<td>May not be double-counted for public policy area requirement if used for core requirement or for both a programmatic and supporting course.</td>
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Track Requirements

Track in Law and Public Policy (POLSBS LP)

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<thead>
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<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
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<tr>
<td>POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
<td>3</td>
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<tr>
<td>POLS 330</td>
<td>International Relations</td>
<td>3</td>
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Supporting Courses

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<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<tr>
<td>&amp; ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
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<tr>
<td>PHIL 211</td>
<td>Critical Thinking - AH</td>
<td>3</td>
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<tr>
<td>or PHIL 311</td>
<td>Introduction to Logic</td>
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<tr>
<td>MATH 107</td>
<td>Finite Mathematics</td>
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<tr>
<td>or MATH 180</td>
<td>Elements of Calculus - QR</td>
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</tbody>
</table>

Minimum Electives 5-7

Minimum Total Hours 51-53

Flight Plan

Track in Law and Public Policy

Year 1

Fall
- GEN 101 or GEN 100  Arts and Sciences Orientation or Student Success Center Orientation 1
- ENGL 101  Introduction to College Writing - WC 3
- POLS 201  Introduction to American Government and Politics - SB 3
- General Education: Cardinal Core Natural Sciences - S 3
- General Education: Cardinal Core Natural Sciences Lab - SL 1

Hours 15

Spring
- ENGL 102  Intermediate College Writing - WC 3
- General Education: Cardinal Core Natural Sciences - S 3
- General Education: Cardinal Core Quantitative Reasoning - QR 3-4
- General Elective 3
- Foreign Language 2 3-4

Hours 16-17

Year 2

Fall
- POLS 202  Introduction to Comparative Politics - D2, SB 3
- POLS 330  International Relations 3
- Social Science elective (300 level or above) 3
- General Education: Cardinal Core Oral Communication - OC 3
- General Education: Cardinal Core Arts & Humanities - AH 3

Hours 15

Spring
- POLS 335  Public Administration or POLS 325  or Public Policy 3
- ECON 201  Principles of Microeconomics - SB 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3
- Political Science Law course 3
- General elective 3

Hours 15

Year 3

Fall
- Humanities or Natural Sciences WR elective (300 level or above) 3
- ECON 202  Principles of Macroeconomics - SB 3
- Political Science Law course 3

Track in Paralegal Studies (POLSBS PAR)

Note: Completion of the BS in Political Science with Paralegal Track is not, without dual completion of the Associate of Arts in Paralegal Studies, designed to prepare students for a career as a paralegal, nor does it constitute a Paralegal degree from an ABA-accredited program.

Completion of the Associate of Arts in Paralegal Studies requires at least 10 semester hours of legal specialty coursework to be completed through traditional classroom instruction.

The Associate of Arts Program in Paralegal Studies is not currently accepting applications for Admission.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
<td></td>
</tr>
<tr>
<td>POLS Electives</td>
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<td>3</td>
</tr>
<tr>
<td>Paralegal Track</td>
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</tbody>
</table>
Political Science Public Policy course
General Education: Cardinal Core Arts & Humanities US Diversity - AHD1

| Hours | 15 |

**Spring**
- Humanities or Natural Science elective (300 level or above)
- Social Science elective
- Political Science Law course
- POLS 390 Contemporary Political Research
- Social Science elective

| Hours | 15 |

**Year 3**

**Fall**
- POLS 325 Public Administration
  or POLS 326 or Public Policy
- PARA 390 Paralegal Internship
- PARA 399 Professional Ethics for Paralegals
- Paralegal Studies elective (300 level or above)
- Political Science Law course
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2

| Hours | 15 |

**Spring**
- ECON 202 Principles of Macroeconomics - SB
- PHIL 211 Critical Thinking - AH
  or PHIL 311 or Introduction to Logic
- POLS 390 Contemporary Political Research
- Paralegal Studies elective (300 level or above)
- Political Science Policy course

| Hours | 15 |

**Year 4**

**Fall**
- Political Science Law course
- Political Science Policy course
- Political Science elective
- General Elective
- General Elective

| Hours | 15 |

**Spring**
- POLS 495 Senior Seminar - CUE, WR
- Political Science elective
- Political Science elective
- General Elective
- General Elective

| Hours | 15 |

Minimum Total Hours 121-122

---

### Track in Paralegal Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Year 1</td>
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<tr>
<td>Fall</td>
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<tr>
<td>GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td>1</td>
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<tr>
<td>or GEN 100</td>
<td>or Student Success Center Orientation</td>
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</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language 1</td>
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<td>3-4</td>
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<tr>
<td>PARA 101</td>
<td>Legal Systems and the Paralegal</td>
<td>3</td>
</tr>
</tbody>
</table>

| Hours | 14 |

| Spring | | |
| ENGL 102 | Intermediate College Writing - WC | 3 |
| POLS 201 | Introduction to American Government and Politics - SB | 3 |
| PARA 102 | Legal Research and Writing | 3 |
| General Education: Cardinal Core Natural Sciences - S | | 3 |
| Foreign Language 2 | | 3-4 |

| Hours | 16 |

| Year 2 | | |
| Fall | | |
| PARA 203 | Advanced Legal Research and Writing | 3 |
| General Education: Cardinal Core Natural Sciences - S | | 3 |
| General Education: Cardinal Core Natural Sciences Lab - SL | | 1 |
| General Education: Cardinal Core Oral Communication - OC | | 3 |
| General Education: Cardinal Core Arts & Humanities US Diversity - AHD1 | | 3 |
| General Elective | | 3 |

| Hours | 16 |

| Spring | | |
| Paralegal Studies elective (300 level or above) | | 3 |
| Paralegal Studies elective (300 level or above) | | 3 |
| Humanities or Natural Science WR elective (300 level or above) | | 3 |
| ECON 201 | Principles of Microeconomics - SB | 3 |
| General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH | | 3 |

| Hours | 15 |

MATH 107 is not approved to satisfy the Cardinal Core program's Quantitative Reasoning (QR) requirement. Students who opt to take MATH 107 will need to take an approved QR course as one of their general electives.

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Psychology (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Psychology (PSYCBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Psychological and Brain Sciences (http://louisville.edu/psychology)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The BA in Psychology prepares students for most bachelor’s-level careers as well as graduate school in psychology and other professional domains. Students develop the critical thinking and communication skills necessary to gather, interpret and present data. Psychology students can become intelligent consumers of information and active investigators of the fields of cognition, behavior, and brain science and how each facet of psychology impacts everyday decision-making.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>68</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>121</td>
</tr>
</tbody>
</table>

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the major in Psychology requires:

1. Completion of PSYC 201 with a minimum grade of C;
2. Completion of MATH 111 or higher level Math course;
3. Completion of PSYC 301 Statistics for Psychology (or approved substitute) with a minimum grade of C;
4. Completion of 30 hours of degree-applicable credit with a minimum grade point average of 2.0; and
5. A minimum grade point average of 2.0 in Psychology.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100 or GEN 101</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language 1</td>
<td></td>
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</tr>
<tr>
<td>Electives in Humanities or Natural Sciences 2</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>WR—two approved courses at the 300 level or above 3</td>
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<td>Minimum Total Hours</td>
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Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology (or approved substitute)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 302</td>
<td>Research Methods for Psychology</td>
<td>3</td>
</tr>
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</table>

Core requirements:

| PSYC 305 | Brain and Behavior | 12    |
| PSYC 306 | Life Span Developmental Psychology |       |
| PSYC 307 | Cognitive Processes |       |
| PSYC 308 | Abnormal Psychology |       |
| Psychology CUE course (see list below) | 3     |
| Psychology electives 5,6 | 12-15 |

Supporting Courses

Select TWO (2) of the following sequences:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH 201 and any Anthropology 300+ elective</td>
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<td>12</td>
</tr>
<tr>
<td>POLS 201 and any Political Science 300+ elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 311 and either PHIL 321 or PHIL 323</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 201 and any Sociology 300+ level elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 2 3 4 5 6
Minimum Electives: 6,7
Minimum Total Hours: 68

Requirements for graduation include:

- Completion of PSYC 302 with a minimum grade of C
- Minimum grade of C-minus in all courses used to meet departmental requirements in the Psychology major
- Minimum grade point average of 2.0 in Psychology

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

At least 50 of the total minimum hours required must be at the 300 level or above.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>MATH 111</td>
<td>College Algebra - QR</td>
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**Year 2**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>Brain and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 306</td>
<td>Life Span Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 2</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 302</td>
<td>Research Methods for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 307</td>
<td>Cognitive Processes</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 308</td>
<td>Abnormal Psychology</td>
<td>3</td>
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<tr>
<td>Humanities or Natural Science elective</td>
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<td>3</td>
</tr>
<tr>
<td>Foreign Language 3</td>
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<td>3-4</td>
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**Year 3**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities or Natural science elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities or Natural science elective (300 level or above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective (300 level or above)</td>
<td></td>
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<tr>
<td>General elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology elective (300 level or above)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>First Social Science Elective Sequence Course 1</td>
<td></td>
<td>3</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective (300 level or above)</td>
<td></td>
<td>3</td>
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<tr>
<td>General elective</td>
<td></td>
<td>3</td>
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</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology elective; CUE/WR or WR</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Psychology elective (300 level or above)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>First Social Science Elective Sequence Course 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Second Social Science Elective Sequence Course 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology elective; CUE/WR or WR</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General elective (300 level or above)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan...
to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Psychology (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Psychology (PSYCBS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Psychological and Brain Sciences (http://louisville.edu/psychology)

Program Information
This degree program is designed to accommodate the needs of majors who intend to pursue careers health or science fields and includes most of the required course work for a pre-med curriculum. This program requires a demanding sequence of supporting classes in biology, chemistry, physics, mathematics beyond the introductory level, as well as increased hours of electives in the major.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>31</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>1</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>1</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6-8</td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences at 300+level</td>
<td>6</td>
</tr>
<tr>
<td>WR - two approved courses at the 300 level or above</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 121

1. Students earning the BS in Psychology will satisfy at least 10 hours of General Education Requirements by courses defined by the program. Students who use take MATH 205 and also apply it to satisfy the Quantitative Reasoning requirement will satisfy 13 hours. In either case, students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the major in Psychology requires:

1. Completion of PSYC 201 with a minimum grade of C;
2. Completion of MATH 111 or higher level Math course;
3. Completion of PSYC 301 (or approved substitute) with a minimum grade of C;
4. Completion of 30 hours of degree-applicable credit with a minimum grade point average of 2.0; and
5. A minimum grade point average of 2.0 in Psychology.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>31</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>1</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>1</td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences at 300+level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>WR - two approved courses at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 121
Program/Major Requirements

**Department of Psychological and Brain Sciences**
- PSYC 201 Introduction to Psychology - SB 4
- PSYC 301 Statistics for Psychology 5
- PSYC 302 Research Methods for Psychology
- PSYC 305 Brain and Behavior
- PSYC 306 Life Span Developmental Psychology
- PSYC 307 Cognitive Processes
- PSYC 308 Abnormal Psychology

**Psychology CUE course (see list below)**
- PSYC Electives 6,7

**Supporting Courses**
- BIOL 240 Unity of Life - S
- BIOL 242 Diversity of Life
- BIOL 244 Principles of Biology Laboratory - SL
- CHEM 201 General Chemistry I - S
- CHEM 202 General Chemistry II - S
- CHEM 207 Introduction to Chemical Analysis I - SL
- CHEM 208 Introduction to Chemical Analysis II - SL
- CHEM 209 Introduction to Chemical Analysis III
- MATH 205 Calculus I - QR 8
- PHYS 221 Fundamentals of Physics I - S
- PHYS 222 Fundamentals of Physics I - S
- PHYS 223 Fundamentals of Physics Lab I - SL
- PHYS 224 Fundamentals of Physics II - S
- PHYS 225 Fundamentals of Physics Laboratory II - SL

**Minimum Electives 6,7**

**Minimum Total Hours**

75-77

Requirements for graduation include:

- Completion of PSYC 302 with a minimum grade of C
- A minimum grade of C-minus in all courses used to meet departmental requirements in the Psychology major
- A minimum GPA of 2.0 in Psychology (PSYC) coursework

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

**Flight Plan**

**Course Plan**

### Year 1

**Fall**
- GEN 100 or GEN 101 Student Success Center Orientation or Arts and Sciences Orientation 1
- ENGL 101 Introduction to College Writing - WC 3
- BIOL 240 Unity of Life - S 3
- PSYC 201 Introduction to Psychology - SB 3
- CHEM 201 General Chemistry I - S 3
- CHEM 207 Introduction to Chemical Analysis I - SL 1
- CHEM 208 Introduction to Chemical Analysis II - SL 1

**Spring**
- ENGL 102 Intermediate College Writing - WC 3
- BIOL 242 Diversity of Life 3
- BIOL 244 Principles of Biology Laboratory - SL 2
- MATH 205 Calculus I - QR 4
- CHEM 202 General Chemistry II - S 3
- CHEM 209 Introduction to Chemical Analysis III 1

**Hours**

15

### Year 2

**Fall**
- PSYC 301 Statistics for Psychology 3
- PSYC 305 Brain and Behavior 3
- PSYC 306 Life Span Developmental Psychology 3
- Foreign Language I 3-4
- General Education: Cardinal Core Oral Communication - OC 3

**Hours**

15-16

**Spring**
- PSYC 302 Research Methods for Psychology 3
- PSYC 307 Cognitive Processes 3
- PSYC 308 Abnormal Psychology 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH

1. Completion of the second semester of a single foreign language; hours will vary depending on the language taken
2. In addition to courses counted toward General Education
3. May be incorporated into other degree requirements
4. Fulfills a General Education Requirement.
5. Students who substitute a statistics course from another department will need to take an additional Psychology elective to complete the required number of Psychology hours for the program.
6. At least 50 of the total minimum hours required for the degree must be at the 300 level or above.
7. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
8. Or higher level course
Public Health (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Public Health (PH BA)
Unit: Public Health and Information Sciences (http://louisville.edu/sphis)

Program Information

The School of Public Health and Information Sciences (SPHIS) offers two undergraduate degree options: Bachelor of Science in Public Health for students focused on public health practice and Bachelor of Arts in Public Health for liberal studies.

A degree in public health provides students with the skills they need to improve the health of populations and communities, as well as alleviate suffering caused by disease, injuries and health disparities. Public Health majors learn how to inquire, challenge and explore options that promote the health and well-being of the community.

A BA in Public Health prepares students for positions in specific sectors of public health, health services, and public policy, with career opportunities in health education, health care administration, health research, environmental health, and more. Examples of job settings could include colleges and universities, federal and state health agencies, and community and international organizations. Both degrees prepare students for advanced degrees in public health, law, and clinical health professions (i.e., PA, PT, Nursing, Pharmacy, Medicine, and Dentistry).

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<tr>
<td></td>
<td>College/School Requirements</td>
<td>11-13</td>
</tr>
<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>76-78</td>
</tr>
</tbody>
</table>

Minimum Total Hours 120

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the school, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.
Departmental Admission Requirements

Admission requirements depend on a student's educational and public health experience, outlined as follows:

Entering First-Year Students
1. Either of the following:
   a. Graduation from accredited high school
   b. Successful completion of General Education Development (GED) tests
2. High school GPA of 2.5 or higher
3. Pre-College Curriculum (PCC) GPA of 2.5 or higher
4. Either of the following:
   a. ACT/SAT score of 21/980 or higher
   b. ACT/SAT score of 19/940 or higher AND PCC GPA of 3.0 or higher

Transfer Students
Transfer students with fewer than 24 credit hours
1. College GPA of 2.0 or higher
2. Either of the following:
   a. Graduation from accredited high school
   b. Successful completion of General Education Development (GED) tests
3. High school GPA of 2.5 or higher
4. Pre-College Curriculum (PCC) GPA of 2.5 or higher (see Note 1, below)
5. Either of the following:
   a. ACT/SAT score of 21/980 or higher
   b. ACT/SAT score of 19/940 or higher AND PCC GPA of 3.0 or higher

Transfer student with 24 credit hours or more
College GPA of 2.0 or higher

UofL Student Switching Major
University GPA of 2.0 or higher

Post-baccalaureate Student
• Degree posted

KY Public Health Workers
Individuals not meeting criteria for any of above categories can be admitted conditionally with:
1. Either of the following:
   a. Graduation from accredited high school
   b. Successful completion of General Education Development (GED) tests
2. A salaried public health position with continuous employment for previous three years or more
3. Approval of Public Health Appeals Committee

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHPH 301</td>
<td>Global Public Health - D2, SBH</td>
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</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHPH 100</td>
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<tr>
<td>Language 1</td>
<td>Foreign Language</td>
<td>6-8</td>
</tr>
<tr>
<td>Biology Course &amp; Lab (e.g., BIOL 102 &amp; BIOL 104 or higher)</td>
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<td></td>
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Minimum Total Hours
11-13

Program Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHPB 301</td>
<td>Health Equity - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 301</td>
<td>Global Public Health - D2, SBH</td>
<td>3</td>
</tr>
<tr>
<td>PHST 301</td>
<td>Quantitative Methods in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 300</td>
<td>Social and Behavioral Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 420</td>
<td>Practice of Public Health</td>
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<td>PHPH 431</td>
<td>Contemporary Issues in Public Health 1</td>
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<tr>
<td>PHEH 440</td>
<td>Biology for Population Health</td>
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<tr>
<td>PHEP 441</td>
<td>Epidemiological Concepts and Methods for Public Health</td>
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<tr>
<td>PHPH 491</td>
<td>Senior Capstone 1 - CUE</td>
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<td>PHPH 492</td>
<td>Senior Capstone 2 - CUE</td>
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<tr>
<td>PHPH 401</td>
<td>Public Health and Health Policy</td>
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<tr>
<td>PHMS 301</td>
<td>Introduction to the U.S. Healthcare Delivery Systems</td>
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<tr>
<td>PHEH 301</td>
<td>Public Health and Our Environment</td>
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<td>PHPB 305</td>
<td>Public Health Education Principles and Strategies</td>
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</tr>
<tr>
<td>PHPH 410</td>
<td>Public Health Law and Ethics</td>
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Electives

General Electives (any level) 1,2 26-28
General Electives (300-level or above) 2

Minimum Total Hours
76-78

<table>
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<tr>
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<tbody>
<tr>
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<td>120</td>
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</table>

For this degree, the following apply for courses counting toward the degree:

• A course that meets a requirement for more than one of general education may be counted toward at most two requirement areas.
• The credit-hour requirement, however, is not altered by double-counting courses in two different requirement areas and must be fulfilled with electives.
**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHPH 491</td>
<td>Senior Capstone 1 - CUE</td>
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</tr>
<tr>
<td>PHPH 492</td>
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</table>

1. If 6 hours are taken for foreign language, additional hours of electives (any level) are required.
2. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

## Flight Plan

<table>
<thead>
<tr>
<th>Year</th>
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<td>Majoring in Public Health</td>
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<td>Spring</td>
<td>PHPH 301</td>
<td>Global Public Health - D2, SB</td>
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<td></td>
<td></td>
<td>PHPB 300</td>
<td>Social and Behavioral Foundations of Public Health</td>
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<td>2</td>
<td>Fall</td>
<td>PHP 305</td>
<td>Public Health Education Principles and Strategies</td>
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<td>Introduction to the U.S. Healthcare Delivery Systems</td>
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<td>Public Health and Health Policy</td>
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<td>Quantitative Methods in Public Health</td>
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<td>PHEH 301</td>
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<td>Spring</td>
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<td>Epidemiological Concepts and Methods for Public Health</td>
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<td>Contemporary Issues in Public Health 2</td>
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<td></td>
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<td>Hours</td>
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<tr>
<td></td>
<td>Spring</td>
<td>PHPH 492</td>
<td>Senior Capstone 2 - CUE</td>
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<tr>
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<td>Public Health Law and Ethics</td>
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**Minimum Total Hours**

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<td>Hours</td>
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</table>

**Public Health (BS)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts in Public Health (PH BS)**

Unit: Public Health and Information Sciences (http://louisville.edu/sphis)

## Program Information

The School of Public Health and Information Sciences (SPHIS) offers two undergraduate degree options: Bachelor of Science in Public Health for students focused on public health practice and Bachelor of Arts in Public Health for liberal studies.

A degree in public health provides students with the skills they need to improve the health of populations and communities, as well as alleviate suffering caused by disease, injuries and health disparities. Public Health majors learn how to inquire, challenge and explore options that promote the health and well-being of the community.

A BS in Public Health prepares students for positions in specific sectors of public health, health services, and public policy, with career opportunities in health education, health care administration, health research, environmental health, and more. Examples of job settings could include colleges and universities, federal and state health agencies, and community and international organizations. Both degrees prepare students for advanced degrees in public health, law, and clinical health professions (i.e., PA, PT, Nursing, Pharmacy, Medicine, and Dentistry).

## Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
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<td></td>
<td>College/School Requirements</td>
<td>7-9</td>
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<tr>
<td></td>
<td>Program/Major Requirements</td>
<td>80-82</td>
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<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>120</td>
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</table>

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the school, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.
Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission requirements depend on a student's educational and public health experience, outlined as follows:

Entering First-Year Students
1. Either of the following:
   a. Graduation from accredited high school
   b. Successful completion of General Education Development (GED) tests
2. High school GPA of 2.5 or higher
3. Pre-College Curriculum (PCC) GPA of 2.5 or higher
4. Either of the following:
   a. ACT/SAT score of 21/980 or higher
   b. ACT/SAT score of 19/940 or higher AND PCC GPA of 3.0 or higher

Transfer Students
Transfer students with fewer than 24 credit hours
1. College GPA of 2.0 or higher
2. Either of the following:
   a. Graduation from accredited high school
   b. Successful completion of General Education Development (GED) tests
3. High school GPA of 2.5 or higher
4. Pre-College Curriculum (PCC) GPA of 2.5 or higher (see Note 1, below)
5. Either of the following:
   a. ACT/SAT score of 21/980 or higher
   b. ACT/SAT score of 19/940 or higher AND PCC GPA of 3.0 or higher

Transfer student with 24 credit hours or more
College GPA of 2.0 or higher

UofL Student Switching Major
University GPA of 2.0 or higher

Post-baccalaureate Student
• Degree posted

KY Public Health Workers
Individuals not meeting criteria for any of above categories can be admitted conditionally with:
1. Either of the following:
   a. Graduation from accredited high school
   b. Successful completion of General Education Development (GED) tests
2. A salaried public health position with continuous employment for previous three years or more
3. Approval of Public Health Appeals Committee

General Education Requirements
General Education Requirements (http://catalog.louisville.edu/undergraduate/general-education-requirements)

The following courses are either required by the program or can be taken to fulfill a requirement within the program, and can be taken to fulfill the respective General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHPH 301</td>
<td>Global Public Health - D2, SBH</td>
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<td>PHPB 301</td>
<td>Health Equity - D1, SB</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
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<td>&amp; BIOL 104</td>
<td>Laboratory for Biology: Current Issues and</td>
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<td></td>
<td>Applications - SL</td>
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<tr>
<td>CHEM 101</td>
<td>Introduction to Chemistry - S</td>
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<tr>
<td>CHEM 105</td>
<td>Chemistry for Health Professionals - S</td>
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<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
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<td>PHYS 111</td>
<td>Elements of Physics - B</td>
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<tr>
<td>PHYS 221</td>
<td>Fundamentals of Physics I - S</td>
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</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

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<th>Hours</th>
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<td>Foreign Language</td>
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Minimum Total Hours
7-9

Program Requirements

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<td>PHPH 100</td>
<td>Majoring in Public Health</td>
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<td>PHST 301</td>
<td>Quantitative Methods in Public Health</td>
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<tr>
<td>PHPB 300</td>
<td>Social and Behavioral Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 301</td>
<td>Health Equity - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 420</td>
<td>Practice of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 431</td>
<td>Contemporary Issues in Public Health 1</td>
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<tr>
<td>PHPH 432</td>
<td>Contemporary Issues in Public Health 2</td>
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<tr>
<td>PHEH 440</td>
<td>Biology for Population Health (waived and replaced with any 300 level and above biology course if taken BIOL 257 or BIOL 357)</td>
<td>3</td>
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<td>PHEP 441</td>
<td>Epidemiological Concepts and Methods for Public Health</td>
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<tr>
<td>PHPH 491</td>
<td>Senior Capstone 1 - CUE (CUE)</td>
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<td>PHPH 492</td>
<td>Senior Capstone 2 - CUE (CUE)</td>
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<td>Public Health and Health Policy</td>
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<td>PHMS 301</td>
<td>Introduction to the U.S. Healthcare Delivery Systems</td>
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<td>PHEH 301</td>
<td>Public Health and Our Environment</td>
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<tr>
<td>PHPB 305</td>
<td>Public Health Education Principles and Strategies</td>
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</tbody>
</table>
PHPH 410 Public Health Law and Ethics 3

**Program Core, Supporting**

ENGL 101 Introduction to College Writing - WC 3
ENGL 102 Intermediate College Writing - WC 3
or ENGL 105 Advanced Composition for Freshmen - WC 3

BIOL 102 Biology: Current Issues and Applications - S 4
& BIOL 104 Laboratory for Biology: Current Issues and Applications - SL 4

One of the following: 3-4

- CHEM 101 Introduction to Chemistry - S 4
- CHEM 105 Chemistry for Health Professionals - S 4
- CHEM 201 General Chemistry I - S 4
- PHYS 111 Elements of Physics - B 4
- PHYS 221 Fundamentals of Physics I - S 4

**Electives**

General Electives (any level) 2,5 15-19
General Electives (300-level or above) 2

Minimum Total Hours 80-82

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
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<td>Degree Total</td>
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</tbody>
</table>

For this degree, the following apply for courses counting toward the degree:

- A course that meets a requirement for more than one of general education may be counted toward at most two requirement areas.
- The credit-hour requirement, however, is not altered by double-counting courses in two different requirement areas and must be fulfilled with electives.

**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing the following:

PHPH 491 Senior Capstone 1 - CUE 3
PHPH 492 Senior Capstone 2 - CUE 3

1. Or higher level biology course with lab.
2. If 6 hours are taken for foreign language, additional hours of electives (any level) are required.
3. Waived and replaced with any 300-level (or above) biology course for students who have taken BIOL 257 or BIOL 357.
4. Or higher chemistry course or another approved non-biological science course; students selecting a 4-hour course may require fewer general electives to satisfy the minimum hours for the degree.
5. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

**Flight Plan**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>PHPB 301</td>
<td>Health Equity - D1, SB</td>
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**Year 2**

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<td></td>
<td>PHPH 305</td>
<td>Public Health Education Principles and Strategies</td>
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<td>PHMS 301</td>
<td>Introduction to the U.S. Healthcare Delivery Systems</td>
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<tr>
<td></td>
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</tr>
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**Spring**

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<th>Course</th>
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<th>Hours</th>
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<td></td>
<td>PHEH 440</td>
<td>Biology for Population Health</td>
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<td>PHPH 401</td>
<td>Public Health and Health Policy</td>
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**Year 3**

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<td>Quantitative Methods in Public Health</td>
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<td>PHPH 431</td>
<td>Contemporary Issues in Public Health 1</td>
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<td>PHEH 301</td>
<td>Public Health and Our Environment</td>
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**Spring**

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<td>PHPH 420</td>
<td>Practice of Public Health</td>
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**Year 4**

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**Spring**

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<td>PHPH 492</td>
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<td></td>
<td>Hours</td>
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**Minimum Total Hours** 120

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**Social Work (BSW)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Social Work (SW BSW)**
Unit: Kent School of Social Work (KE) (http://louisville.edu/kent)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Bachelor of Social Work program at the Kent School of Social Work prepares students for entry-level professional social work practice. It also provides the foundation for graduate study in social work. The program is accredited by the Council on Social Work Education (CSWE).

The BSW Program Curriculum builds on a liberal arts base. The curriculum is designed to promote the development of generalist social work knowledge and skills in using critical thinking to analyze, plan and implement effective interventions to address complex social problems and the subsequent impact on individuals, families, groups, organizations and communities. Students gain experience through service learning and social work practicum.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>College/School Requirements</td>
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<td>Minimum Total Hours</td>
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</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Students are admitted directly into the Lower Division of the Social Work Program.

Students apply and must be accepted to the Upper Division of the Social Work Program.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>The following courses are required by the program and should be taken to fulfill the respective General Education requirement: PSYC 201 Introduction to Psychology - SB 2</td>
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<tr>
<td></td>
<td>SOC 202 Social Problems - D1, SB (SOC 202 satisfies 3 hours of SB and D1 General Education Requirement)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or SOC 201 Introduction to Sociology - SB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or SOC 203 Introduction to Social Psychology - SB</td>
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</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
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<td>Social Work Lower Division Requirements 4</td>
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<td>SW 101</td>
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<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
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<tr>
<td>SW 203</td>
<td>Human Biology for Social Sciences (suggested)</td>
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<tr>
<td>HSS 202</td>
<td>Human Anatomy &amp; Physiology 2</td>
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<td>PSYC 344</td>
<td>Physiological Psychology</td>
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<td>Select one of the following Sociology courses:</td>
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<tr>
<td>SOC 201</td>
<td>Introduction to Sociology - SB</td>
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<tr>
<td>SOC 202</td>
<td>Social Problems - D1, SB</td>
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<td>SOC 203</td>
<td>Introduction to Social Psychology - SB</td>
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<tr>
<td>Select one of the following Statistics courses:</td>
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<tr>
<td>SW 204</td>
<td>Introduction to Social Statistics (suggested)</td>
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<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR 2</td>
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<td>PSYC 301</td>
<td>Statistics for Psychology 2</td>
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<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
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<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
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Program/Major Requirements

Social Work Upper Division Requirements

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<tr>
<th>Course</th>
<th>Title</th>
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<td>Year 3</td>
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<tr>
<td>Fall</td>
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<tr>
<td>SW 302</td>
<td>Social Welfare Institutions, Policies and Services</td>
<td>3</td>
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<tr>
<td>SW 303</td>
<td>Generalist Practice I</td>
<td>3</td>
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<tr>
<td>SW 301</td>
<td>Human Behavior and the Social Environment I</td>
<td>3</td>
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<td>Upper Division Social Work Elective 5</td>
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<tr>
<td>SW 201</td>
<td>Introduction to Social Work - D1, SB (included in Lower Division total)</td>
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<tr>
<td>Hours</td>
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<tr>
<td>Spring</td>
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</tr>
<tr>
<td>SW 322</td>
<td>Issues in Policy and Service Delivery</td>
<td>3</td>
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<tr>
<td>SW 304</td>
<td>Generalist Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 319</td>
<td>Human Behavior and the Social Environment II</td>
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<td>Upper Division Social Work Electives 5</td>
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<tr>
<td>Hours</td>
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<tr>
<td>Year 4</td>
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<td>Fall</td>
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<tr>
<td>SW 405</td>
<td>Generalist Practice III</td>
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<tr>
<td>SW 470</td>
<td>Practicum I</td>
<td>6</td>
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<tr>
<td>SW 472</td>
<td>Practicum Seminar and Lab I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>SW 426</td>
<td>Introduction to Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>Hours</td>
<td></td>
<td>15</td>
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<td>Spring</td>
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<td>SW 406</td>
<td>Generalist Practice IV</td>
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<td>SW 471</td>
<td>Practicum II</td>
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<td>SW 473</td>
<td>Practicum Seminar and Lab II</td>
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</table>
Upper Division Social Work Elective 3

Minimum Total Hours 57

### Code | Title | Hours
--- | --- | ---
**Culminating Undergraduate Experience (Graduation requirement)**

Requirement fulfilled by completing:

- SW 472 Practicum Seminar and Lab I - CUE

1. Six (6) hours of Diversity (D1/D2) coursework is required. If these competency areas are not covered as part of the program requirements and/or general elective coursework, 6 additional hours will be needed to fulfill the University of Louisville competency-area requirements.

2. Or equivalent as approved/decided by the unit

3. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

4. Students must have a minimum total of 60 credit hours to complete the Lower Division requirements.

5. Two of the four Upper Division Social Work Elective courses may be from the College of Arts and Sciences, Division of Social Sciences (minimum 300 level). Please contact the BSW Advising Team should you have questions.

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
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<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>MATH 105</td>
<td>Quantitative Reasoning - QR (or other Cardinal Core Quantitative Reasoning course)</td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>HIST 101 or HIST 102</td>
<td>History of Civilizations I - D2, SBH or History of Civilizations II - D2, SBH</td>
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<td>SW 201</td>
<td>Introduction to Social Work - D1, SB</td>
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<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td>General elective</td>
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<td><strong>Hours</strong></td>
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<td><strong>Year 2</strong></td>
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<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
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<tr>
<td>General elective</td>
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<tr>
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<td><strong>Hours</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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</tr>
<tr>
<td>SOC 202</td>
<td>Social Problems - D1, SB</td>
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<tr>
<td>General Elective: ANTH 201, GEOG 200, or PAS 206 suggested</td>
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<td>Select one of the following:</td>
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<td>HSS 202</td>
<td>Human Anatomy &amp; Physiology</td>
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<td>PSYC 344</td>
<td>Physiological Psychology</td>
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<tr>
<td>SW 301</td>
<td>Human Behavior and the Social Environment I</td>
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<td><strong>Hours</strong></td>
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<td><strong>Spring</strong></td>
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<td>SW 304</td>
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<td>SW 322</td>
<td>Issues in Policy and Service Delivery</td>
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<tr>
<td><strong>Hours</strong></td>
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<td><strong>Year 4</strong></td>
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<td><strong>Fall</strong></td>
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<td>Generalist Practice III</td>
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<td>Introduction to Social Work Research</td>
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<td><strong>Spring</strong></td>
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<td>SW 406</td>
<td>Generalist Practice IV</td>
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<td>SW 471</td>
<td>Practicum II</td>
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<td>SW 473</td>
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<td></td>
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<td><strong>Hours</strong></td>
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</tr>
<tr>
<td><strong>Minimum Total Hours</strong></td>
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</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Sociology (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Sociology (SOC BA)
Unit: College of Arts and Sciences (AS) (https://louisville.edu/artsandsciences)
Department: Sociology (http://louisville.edu/sociology)

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

Students in the Bachelor of Arts (BA) in Sociology program learn to take an analytical, evidence-driven approach to social issues, as well as gain the interpersonal communication skills necessary to craft persuasive narratives grounded in critical thought. Sociology students focus on diversity and inequality and use their analytical insight into social structures for effective formulation and implementation of democratic social policy.

Those interested in sociology are intrigued by the challenging social issues pervading our world, how society influences and is influenced by them, and how to effectuate change. BA in Sociology students learn how to address these issues through scientific research and application, and, as our world continuously evolves, sociology students are well prepared to offer insight into these changes and how best to accommodate them.

Given the breadth, adaptability, and utility of sociology, employment opportunities are plentiful in social service agencies; federal, state, and local governments; non-profit organizations; and private enterprises.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td></td>
<td>Program/Major Requirements</td>
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<tr>
<td></td>
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</table>

Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA-BS/MA in Sociology

The Department of Sociology offers an accelerated master's degree program, which is designed to allow motivated undergraduates the opportunity to earn graduate credit hours in sociology during their senior year. As undergraduates, accelerated students may earn between 6-9 credit hours (taking 2-3 graduate level courses), which are applied toward both the undergraduate degree as well as the graduate degree, allowing students to begin the graduate program in sociology with credits already applied toward their MA degree.

The graduate courses taken during the student’s senior year will depend on the courses the student has remaining to complete his/her undergraduate degree in sociology. The undergraduate advisor works individually with accelerated students regarding their course schedules.

NOTE: Students in the accelerated program in sociology may only apply their graduate credits earned as an undergraduate toward the graduate degree in sociology at UofL.

To be admitted to the program, a student must have: an undergraduate GPA of 3.35 or better at the time of application and satisfactory GRE scores (see Admissions tab for more information).

Departmental Admission Requirements

Admission to the BA in Sociology requires:

1. completion of SOC 301 with a grade of C or better;
2. a minimum cumulative grade point average of 2.0; and
3. a minimum grade point average of 2.0 in any courses in Sociology.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA-BS/MA in Sociology Application Procedure

Students must apply during the first or second semester of Junior year (i.e., when they have earned between 70-80 hours) by submitting the following to the Graduate Admissions Office:

- G (http://louisville.edu/graduate/futurestudents/apply-materials/application)graduate application (http://louisville.edu/graduate/futurestudents/apply-materials/application)
- Two references (preferably from sociology instructors) in the form of a discursive letter of recommendation and completion of the Letter of Evaluation form (https://sharepoint.louisville.edu/sites/SIGS/Documents/grad-rec.pdf)
- Curriculum vitae (CV) or resume
- GRE scores.

Applicants must also submit to the Department of Sociology responses to the Sociology Graduate Admissions Questionnaire (below). Responses should be of sufficient length to give the Graduate Admissions Committee a basis for evaluating the student’s interest.
in and ability to complete the program, and provide a sample of the student’s writing. Responses can be submitted in four separate essays or combined in one longer essay.

Admissions Questionnaire

1. Please explain your reasons for applying to the accelerated master’s program in sociology. What are your professional or occupational objectives (including any study beyond the master of arts in sociology)? How does this department’s program fit into those objectives?
2. What areas of sociology do you find especially interesting for study and/or research?
3. What positions of responsibility, if any, have you had, and what, specifically, do you believe you have gained from such experience? Positions may include not only employment, but offices held in organizations, volunteer work, etc.
4. Please summarize what you believe to be your most important accomplishments to date, including those in the academic or occupational areas.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td><a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">General Education Requirements</a> *</td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- SOC 202 Social Problems - D1, SB
- or SOC 210 Race in the United States - D1, SB

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td><a href="#">Arts &amp; Sciences Requirements</a></td>
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</table>

- GEN 100 Student Success Center Orientation 1
- or GEN 101 Arts and Sciences Orientation
- Foreign Language 1 12
- Electives in Humanities or Natural Sciences 2 9
- WR—two approved courses at the 300 level or above 3

Minimum Total Hours 22

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td><a href="#">Department of Sociology</a></td>
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</table>

- SOC 201 Introduction to Sociology - SB 3
- SOC 202 Social Problems - D1, SB 4 3
- or SOC 210 Race in the United States - D1, SB
- SOC 301 Introduction to Social Statistics 3
- SOC 303 Introduction to Research Methods - WR 5 3
- SOC 320 Social Theory - WR 5 3
- SOC 323 Diversity and Inequality 3

Environment, Health and Population Studies

Select ONE (1) of the following: 3

- SOC 305 Urban Sociology
- SOC 306 Demography
- SOC 307 Rural Sociology
- SOC 315 Environmental Sociology
- SOC 329 Sociology of Families
- SOC 340 Mental Health and Illness
- SOC 342 Medical Sociology
- SOC 343 Sociology of Women’s Health
- SOC 392 Faces of Global Poverty - WR
- SOC 394 Globalization, Culture and Third-World Development

Social Inequalities, Behavioral and Structural Studies

Select TWO (2) of the following: 6

- SOC 325 Sociology of Human Sexuality
- SOC 327 Sociology of Gender
- SOC 334 Sociology of Deviant Behavior
- SOC 336 Criminology
- SOC 344 Sociology of Music in Contemporary America
- SOC 346 Sociology of Religion
- SOC 374 Money, Economics and Society - WR
- SOC 380 Animals and Society

Three (3) Sociology electives at the 400 level 9

Sociology CUE course 7 3

Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="#">Social Sciences Disciplinary Perspectives</a></td>
<td></td>
</tr>
</tbody>
</table>

Select TWO (2) of the following:

- ANTH 201 Introduction to Cultural Anthropology - D2, SB 4
- PAS 200 Introduction to Pan-African Studies - D1, SB
- LALS 311 Introduction to Latino Studies - D1, SB
- WGST 201 Women In American Culture - D1, SB

Electives in Social Sciences other than Sociology of which 6 hours must be at 300 level or above 8

Minimum Electives 9 11

Minimum Total Hours 68

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

Sociology majors may take no more than six hours of “Special Topics” courses in Sociology to meet degree requirements.

At least 50 of the total minimum hours required must be at the 300 level or above.

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing one of the following:

- SOC 400 Independent Study - CUE
- SOC 405 Voluntarism - CUE
- SOC 406 Applied Sociology - CUE
- SOC 410 Sociology of Aging - CUE
- SOC 415 Sociology of Death & Dying - CUE
- SOC 425 Sociology of Leisure - CUE
### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>SOC 201</td>
<td>Introduction to Sociology - SB</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td>3</td>
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<tr>
<td>LALS 310</td>
<td>Introduction to Latin American Studies - D2, SB</td>
<td>3</td>
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<tr>
<td>PAS 200</td>
<td>Introduction to Pan-African Studies - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<tr>
<td>Foreign Language 1</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AH02</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOC 202</td>
<td>Social Problems - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 210</td>
<td>or Race in the United States - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>17</td>
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<tr>
<td><strong>Year 2</strong></td>
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<td><strong>Fall</strong></td>
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<td>Foreign Language 2</td>
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<td>4</td>
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<tr>
<td>General Education: Cardinal Core Oral Communication - OC</td>
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<td></td>
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<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General Education:

- **Cardinal Core Natural Sciences - S**: 3
- **Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH**: 3
- **Cardinal Core Arts & Humanities Global Diversity - AH02**: 3
- **Cardinal Core Arts & Humanities - AH**: 3
- **Cardinal Core Quantitative Reasoning**: 3

### Notes:

1. Completion of the intermediate level of a single foreign language must be at 300 level or above.
2. May be incorporated into other degree requirements.
3. May be used to satisfy a General Education: Cardinal Core requirement.
4. SOC 303 and SOC 320 must be completed with a grade of C or better.
5. SOC 350 may be used to satisfy this degree requirement depending on the appropriateness of its topic and with the department undergraduate advisor's approval. Other sociology electives may be substituted upon approval from the department undergraduate advisor.
6. The list of approved CUE courses appears above.
7. In addition to courses counted toward general education.
8. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

### Degree Audit requirements:

- Log into your ULink account.
- Click on the Student Services tab.
- Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
- To create a What-if report, click on "Create a What-if Advisement Report."

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**University of Louisville**

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**Minimum Total Hours**: 122

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Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.
This program was approved for students entering the university in the Summer 2018—Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Sociology (SOC BS)
Unit: College of Arts and Sciences (AS) (https://louisville.edu/artsandsciences)  
Department: Sociology (http://louisville.edu/sociology)

Program Information

Sociology students learn how to address these issues through scientific research and application, and, as our world continuously evolves. Sociology majors are well prepared to offer insight into these changes and how best to accommodate them. Sociology majors are offered a rich environment within which to develop skills in critical thinking, analytic problem-solving, and communication that are required by employers and/or that prepare them for a range of graduate programs.

Given the training in research methods, statistics, and topical areas, employment opportunities for sociology majors are plentiful in social service agencies; federal, state, and local governments; nonprofit organizations; and private enterprises. The emerging global economic order and the increased complexity of corporate cultures promise to open even more opportunities for our graduates. Some sociology majors help companies develop global marketing strategies, and others work to enhance the culture and organization of corporations.

Sociology students pursue careers in a variety of fields: business, child welfare, computer industry, criminal justice, education (teaching, evaluation research, consultation, research), gerontology, health care, international relations, law, law enforcement, leisure/recreation/sport, military/military intelligence, social work, and urban planning or management, and more.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>(<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td>College/School Requirements</td>
<td></td>
<td>13-15</td>
</tr>
</tbody>
</table>

Program/Major Requirements 1 75-77

Minimum Total Hours 121

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA-BS/MA in Sociology

The Department of Sociology offers a an accelerated master’s degree program, which is designed to allow motivated undergraduates the opportunity to earn graduate credit hours in sociology during their senior year. As undergraduates, accelerated students may earn between 6-9 credit hours (taking 2-3 graduate level courses), which are applied toward both the undergraduate degree as well as the graduate degree, allowing students to begin the graduate program in sociology with credits already applied toward their MA degree.

The graduate courses taken during the student’s senior year will depend on the courses the student has remaining to complete his/her undergraduate degree in sociology. The undergraduate advisor works individually with accelerated students regarding their course schedules.

NOTE: Students in the accelerated program in sociology may only apply their graduate credits earned as an undergraduate toward the graduate degree in sociology at UofL.

To be admitted to the program, a student must have: an undergraduate GPA of 3.35 or better at the time of application and satisfactory GRE scores (see Admissions tab for more information).

Departmental Admission Requirements

Admission to the BS in Sociology requires:

1. Completion of SOC 301 with a grade of C or better
2. Minimum cumulative grade point average of 2.0
3. Minimum grade point average of 2.0 in any courses in Sociology.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA-BS/MA in Sociology Application Procedure

Students must apply during the first or second semester of Junior year (i.e., when they have earned between 70-80 hours) by submitting the following to the Graduate Admissions Office:

- G (http://louisville.edu/graduate/futurestudents/apply-materials/graduate-application) graduate application (http://louisville.edu/graduate/futurestudents/apply-materials/application)
- Two references (preferably from sociology instructors) in the form of a discursive letter of recommendation and completion of the Letter of Evaluation form (https://sharepoint.louisville.edu/sites/SIGS/Documents/grad-rec.pdf)
- Curriculum vitae (CV) or resume
- GRE scores.
Applicants must also submit to the Department of Sociology responses to the Sociology Graduate Admissions Questionnaire (below). Responses should be of sufficient length to give the Graduate Admissions Committee a basis for evaluating the student’s interest in and ability to complete the program, and provide a sample of the student’s writing. Responses can be submitted in four separate essays or combined in one longer essay.

Admissions Questionnaire

1. Please explain your reasons for applying to the accelerated master’s program in sociology. What are your professional or occupational objectives (including any study beyond the master of arts in sociology)? How does this department’s program fit into those objectives?

2. What areas of sociology do you find especially interesting for study and/or research?

3. What positions of responsibility, if any, have you had, and what, specifically, do you believe you have gained from such experience? Positions may include not only employment, but offices held in organizations, volunteer work, etc.

4. Please summarize what you believe to be your most important accomplishments to date, including those in the academic or occupational areas.

General Education Requirements

Table: General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
</tr>
<tr>
<td>SOC 202</td>
<td>Social Problems - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 210</td>
<td>Race in the United States - D1, SB</td>
<td>3</td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

Table: College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td>4</td>
</tr>
<tr>
<td>PAS 200</td>
<td>Introduction to Pan-African Studies - D1, SB</td>
<td></td>
</tr>
<tr>
<td>LALS 311</td>
<td>Introduction to Latino Studies - D1, SB</td>
<td></td>
</tr>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Electives 7 6-8

Minimum Total Hours 75-77

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

Sociology majors may take no more than six hours of “Special Topics” courses in sociology to meet degree requirements.

At least 50 of the total minimum hours required must be at the 300 level or above.

Completion of this degree requires completion of SOC 303 and SOC 320 with a grade of C or better.
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.

4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Spanish (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Spanish (SPAN BA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Classical and Modern Languages (http://www.louisville.edu/modernlanguages)

Program Information

The Spanish program offers two options for students wishing to complete the Spanish Major.

The Spanish as a Second Language (SL) serves students whose primary experience with Spanish has been in the classroom. Students may place into SPAN 201 or higher through the online placement (http://louisville.edu/modernlanguages/placement-exam/spanish-french-russian-and-german-placement-exam.html) exam.

The Spanish as a Heritage Language (HL) offers courses for individuals who grew up in Spanish-speaking environments and are able to communicate, to some extent, in more than one language. Some students are immigrants who have recently arrived in the United States and have had extensive schooling in their native countries. Others are first-, second-, or third-generation bilinguals whose abilities in the heritage language vary widely. Placement into Heritage Learner courses is done through departmental evaluation (http://louisville.edu/modernlanguages/placement-exam/spanish-heritage-learners.html).

The Accelerated BA/MA program is an accelerated option for motivated and highly prepared students who wish to prepare themselves for the global economy, a multicultural community, and a changing workplace through the study of Language, Culture, Linguistics, Translation, Interpretation, and Spanish in the Workplace. It seeks to prepare our students to speak the language in a variety of settings, and to use linguistics skills and cultural knowledge for both academic and non-academic careers.

Students accepted into the combined BA/MA program will complete all the coursework for the Spanish BA. However, during their senior year, students will take three graduate level courses, which will meet both undergraduate and graduate requirements in Spanish. Students remain enrolled as undergraduate students until completion of the BA. At that point, they are officially admitted to the graduate program, and enroll as graduate students for the remainder of the coursework for the MA.

Students accepted into the program will be eligible to apply for Graduate Assistantships. Assistantships can only be awarded for the year following completion of the undergraduate degree.

Interested students should be in their junior (third) year of undergraduate work (with no more than 90 degree applicable hours), with an overall GPA of 3.35 (see Admissions tab for more information).

Departmental Admission Requirements

Admission to the BA in Spanish requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA/MA (Master of Arts) in Spanish

At the time of application, students must have:

- A 3.35 undergraduate GPA
- Completed required 300-level SPAN courses (e.g., SPAN 321) with grades of B or better.

It is also recommended that students have completed one course at the 400 level before applying.

Students should contact the Spanish graduate advisor for more information.
General Education Requirements

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

Program/Major Requirements

Code | Title | Hours
---|---|---
GEN 100 | Student Success Center Orientation | 1
or GEN 101 | Arts and Sciences Orientation |
Foreign Language | 12
Electives in Natural Sciences or Social Sciences | 9
WR—two approved courses at the 300 level or above | 3
Minimum Total Hours | 22

Spanish Core Courses

Code | Title | Hours
---|---|---
SPAN 201 | Intermediate Spanish I | 6
& SPAN 202 | Intermediate Spanish II |
or SPAN 205 | Intensive Intermediate Spanish for Heritage Learners |
Select one of the following sequences: | 6-12
Sequence One:
| SPAN 305 | Spanish Grammar in Context |
| SPAN 310 | Readings and Writing in Spanish I |
| SPAN 311 | Cultural Readings and Writing in Spanish II |
| SPAN 321 | Communication and Conversation in Spanish |
Sequence Two:
| SPAN 325 | Bridging Linguistic Registers for Heritage Learners of Spanish |
| SPAN 335 | Advanced Spanish for Heritage Learners |
Select two of the following: | 6
| SPAN 401 | Foundations of Spanish Civilization |
| SPAN 402 | Cultural and Literary Perspectives on Modern Spain |
| SPAN 403 | Foundations of Latin American Nations and Identities |
| SPAN 404 | Cultural and Literary Perspectives on Modern Latin America |
| SPAN 490 | Spanish Capstone Seminar - CUE, WR |
| SPAN 524 | Introduction to Hispanic Linguistics |
Spanish electives at the 300 level or above | 6-9

Supporting Courses

Electives in Humanities Division disciplines, other than Spanish, at 300 level or above | 6
Minimum Electives | 23-26
Minimum Total Hours | 68

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 490</td>
<td>Spanish Capstone Seminar - CUE, WR</td>
</tr>
</tbody>
</table>
1. Completion of the intermediate level of a single foreign language
2. In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3. May be incorporated into other degree requirements
4. Majors in one foreign language may count courses at the 300 level or above in another foreign language toward this requirement.

No more than 40 hours in Spanish may be applied toward the Bachelor of Arts degree. SPAN 121, SPAN 122, and SPAN 123 and SPAN 141 and SPAN 142 do not count toward the 40 hour maximum in Spanish.

At least 50 of the total minimum hours required must be at the 300 level or above.
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
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### Sport Administration (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Science in Sport Administration (SPADBS)**
Unit: College of Education and Human Development (http://www.louisville.edu/edu)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SPAN 405</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Social Science or Natural Science Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Spring**

Spanish Elective (300 level or above) | 3
Humanities Elective (300 level or above) | 3
Select one of the following: | 3
SPAN 401 Foundation of Spanish Civilization | 3
SPAN 402 Cultural and Literary Perspectives on Modern Spain | 3
SPAN 403 Foundations of Latin American Nations and Identities | 3
SPAN 404 Cultural and Literary Perspectives on Modern Latin America | 3
Social Science or Natural Science elective (300 level or above) | 3
General Elective | 3
| Hours                                      | 17    |

**Year 4**

**Fall**

SPAN 524 Introduction to Hispanic Linguistics | 3
Social Science or Natural Science Elective (300 level or above) | 3
Humanities elective (300 level or above) | 3
General Elective | 3
General Elective | 3
General Elective | 3
| Hours                                      | 15    |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SPAN 490</td>
<td>Spanish Capstone Seminar - CUE, WR</td>
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<tr>
<td>Spanish Elective (300 level or above)</td>
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<tr>
<td>General Elective</td>
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<td></td>
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<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Total Hours</td>
<td>121</td>
<td></td>
</tr>
</tbody>
</table>

**Program Information**

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

Sport administration (SPAD) is the business side of sport.

Sport managers deal with all of the business aspects surrounding sport organizations and sporting events such as leadership, organizational behavior, marketing, finance, law, facility management, fundraising, event management, multimedia, sponsorships, and promotion.

The University of Louisville offers a Bachelor of Science in Sport Administration. The undergraduate program is designed to prepare students to enter careers in the sport industry. The SPAD program has a diverse student population representing a variety of geographical, cultural, educational, and professional backgrounds. Our students gain valuable experience working, interning, and volunteering on many significant service-learning projects for local and community agencies. We utilize many guest lecturers from sport business organizations each semester to speak with our students about how to excel as a business professional in the sport industry.

### Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>College/School Requirements</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>123</td>
<td></td>
</tr>
</tbody>
</table>

1. Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

### Departmental Admission Requirements

Students must complete 45 credit hours or more and earn a cumulative GPA of 2.50 or higher to apply for the SPAD major, including completion of SPAD 281 and SPAD 284 with a grade of C or better (C-minus will NOT count).

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Department: Health &amp; Sports Sciences</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following course can be taken to fulfill the respective General Education Requirement and a major requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 293</td>
<td>Social and Psychological Dimensions of Physical Activity - SB</td>
<td>3</td>
</tr>
</tbody>
</table>

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting
coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**College/School Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 181</td>
<td>Academic Orientation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select two (2) Physical Education Activity Courses (see list below)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSS 184</td>
<td>Healthy Lifestyles I</td>
</tr>
<tr>
<td></td>
<td>HSS 310</td>
<td>Healthy Lifestyles II</td>
</tr>
<tr>
<td></td>
<td>HSS 293</td>
<td>Social and Psychological Dimensions of Physical Activity - SB</td>
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</tbody>
</table>

Minimum Total Hours 6

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAD 281</td>
<td>Principles of Sport Administration</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 284</td>
<td>Issues and Ethics in Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 382</td>
<td>Sport Management and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 383</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 390</td>
<td>Sport Governance</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 391</td>
<td>Sociology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 401</td>
<td>Career Development in Sport Administration</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 402 &amp; 402</td>
<td>Internship in Sport Administration - CUE</td>
<td>6-8</td>
</tr>
<tr>
<td>SPAD 404</td>
<td>Financial Principles in Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 445</td>
<td>Sport Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 489</td>
<td>Legal Aspects of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 490</td>
<td>Senior Seminar in Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>SPAD Electives</td>
<td>Select three of the following:</td>
<td>9</td>
</tr>
<tr>
<td>SPAD 360</td>
<td>Administration of Intramural Activities</td>
<td></td>
</tr>
<tr>
<td>SPAD 405</td>
<td>Sport Facility Management</td>
<td></td>
</tr>
<tr>
<td>SPAD 480</td>
<td>Athletics in Higher Education</td>
<td></td>
</tr>
<tr>
<td>SPAD 509</td>
<td>International Sport</td>
<td></td>
</tr>
<tr>
<td>SPAD 510</td>
<td>Entrepreneurship in Sport Business</td>
<td></td>
</tr>
<tr>
<td>SPAD 524</td>
<td>Management of Professional Baseball</td>
<td></td>
</tr>
<tr>
<td>SPAD 525</td>
<td>Sport Event Planning and Management</td>
<td></td>
</tr>
<tr>
<td>SPAD 529</td>
<td>Women and Sport</td>
<td></td>
</tr>
<tr>
<td>SPAD 530</td>
<td>Sport Promotion and Sales</td>
<td></td>
</tr>
<tr>
<td>SPAD 536</td>
<td>Sport Administration in Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>SPAD 561</td>
<td>Special Topics in Sport Administration</td>
<td></td>
</tr>
<tr>
<td>SPAD 571</td>
<td>Sport for Development and Peace</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives 1</td>
<td>38</td>
</tr>
</tbody>
</table>

Minimum Total Hours 86

A minimum of 123 credit hours with an overall GPA of 2.25 is required including a minimum of 50 credit hours at the 300 level.

A grade of D will not be accepted in SPAD courses.

SPAD majors are strongly encouraged to complete a minor. Suggested minors include: Business Administration, Communication, Economics, Entrepreneurship, Equine Business, Exercise Science, Finance and Management.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAD 402</td>
<td>Internship in Sport Administration - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1 Consult advisor. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

**Physical Education Activity Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 101</td>
<td>Beginning Swimming</td>
<td>1</td>
</tr>
<tr>
<td>HSS 102</td>
<td>Advanced Swimming</td>
<td>1</td>
</tr>
<tr>
<td>HSS 103</td>
<td>Life Saving</td>
<td>1</td>
</tr>
<tr>
<td>HSS 104</td>
<td>Scuba</td>
<td>1</td>
</tr>
<tr>
<td>HSS 108</td>
<td>Water Fitness</td>
<td>1</td>
</tr>
<tr>
<td>HSS 109</td>
<td>Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>HSS 110</td>
<td>Physical Fitness and Conditioning</td>
<td>1</td>
</tr>
<tr>
<td>HSS 111</td>
<td>Aerobic Fitness</td>
<td>1</td>
</tr>
<tr>
<td>HSS 112</td>
<td>Mini-Marathon Training</td>
<td>1</td>
</tr>
<tr>
<td>HSS 114</td>
<td>Fitness Walking</td>
<td>1</td>
</tr>
<tr>
<td>HSS 115</td>
<td>Step Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>HSS 116</td>
<td>Introduction to Yoga</td>
<td>1</td>
</tr>
<tr>
<td>HSS 117</td>
<td>Intermediate Yoga</td>
<td>1</td>
</tr>
<tr>
<td>HSS 118</td>
<td>Beginning Martial Arts</td>
<td>1</td>
</tr>
<tr>
<td>HSS 119</td>
<td>Intermediate Martial Arts</td>
<td>1</td>
</tr>
<tr>
<td>HSS 120</td>
<td>Beginning Racquetball</td>
<td>1</td>
</tr>
<tr>
<td>HSS 121</td>
<td>Billiards and Table Games</td>
<td>1</td>
</tr>
<tr>
<td>HSS 122</td>
<td>Badminton</td>
<td>1</td>
</tr>
<tr>
<td>HSS 123</td>
<td>Tennis</td>
<td>1</td>
</tr>
<tr>
<td>HSS 124</td>
<td>Advanced Tennis</td>
<td>1</td>
</tr>
<tr>
<td>HSS 125</td>
<td>Golf</td>
<td>1</td>
</tr>
<tr>
<td>HSS 126</td>
<td>Tumbling and Apparatus</td>
<td>1</td>
</tr>
<tr>
<td>HSS 127</td>
<td>Beginning Fencing</td>
<td>1</td>
</tr>
<tr>
<td>HSS 128</td>
<td>Pickleball</td>
<td>1</td>
</tr>
<tr>
<td>HSS 132</td>
<td>Canoeing</td>
<td>1</td>
</tr>
<tr>
<td>HSS 133</td>
<td>Backpacking and Hiking</td>
<td>1</td>
</tr>
<tr>
<td>HSS 134</td>
<td>Rappelling</td>
<td>1</td>
</tr>
<tr>
<td>HSS 136</td>
<td>Soccer</td>
<td>1</td>
</tr>
<tr>
<td>HSS 137</td>
<td>Volleyball</td>
<td>1</td>
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<tr>
<td>HSS 138</td>
<td>Basketball</td>
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<tr>
<td>HSS 140</td>
<td>Softball</td>
<td>1</td>
</tr>
<tr>
<td>HSS 144</td>
<td>Physical Activity for the Older Adult</td>
<td>1</td>
</tr>
<tr>
<td>HSS 145</td>
<td>Activity for the Physically Challenged</td>
<td>1</td>
</tr>
<tr>
<td>HSS 150</td>
<td>Special Topics: Physical Education Activities</td>
<td>1</td>
</tr>
<tr>
<td>HSS 160</td>
<td>Beginning Aerobic Dance</td>
<td>1</td>
</tr>
<tr>
<td>HSS 161</td>
<td>Intermediate Aerobic Dance</td>
<td>1</td>
</tr>
<tr>
<td>HSS 162</td>
<td>Beginning Modern Dance</td>
<td>1</td>
</tr>
<tr>
<td>HSS 163</td>
<td>Intermediate Modern Dance</td>
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</table>
# Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>HSS 181</td>
<td>Academic Orientation</td>
<td>1</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences - SB</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HSS Activity course (HSS 101-167)</td>
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</tr>
<tr>
<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities US Diversity - AHD1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HSS Activity Course (HSS 101-167)</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

## Year 2

### Fall
- SPAD 281  Principles of Sport Administration  3
- SPAD 284  Issues and Ethics in Sport  3
- Select one of the following:
  - HSS 184  Healthy Lifestyles I  3
  - HSS 310  Healthy Lifestyles II  3
  - HSS 293  Social and Psychological Dimensions of Physical Activity - SB  3
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2  3
- General Elective  1
- General Elective  3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

### Spring
- SPAD 382  Sport Management and Leadership  3
- SPAD 383  Sport Marketing  3
- SPAD 391  Sociology of Sport  3
- General Education: Cardinal Core Oral Communication - OC  3
- General Elective  3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

## Year 3

### Fall
- SPAD 390  Sport Governance  3
- SPAD 445  Sport Communication  3
- General Elective  3
- General Elective  3
- General Elective  3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

### Spring
- SPAD 489  Legal Aspects of Sport  3
- Sport Administration Elective  3
- General Elective  3
- General Elective  3
- General Elective (300 level or above)  3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

## Year 4

### Fall
- SPAD 401  Career Development in Sport Administration  3
- SPAD 404  Financial Principles in Sport  3
- SPAD 490  Senior Seminar in Sport Business  3
- Sport Administration Elective  3
- General Elective (300 level or above)  3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

### Spring
- SPAD 402  Internship in Sport Administration - CUE  3
- General Elective (300 level or above)  3
- General Elective  3
- General Elective  3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

## Minimum Total Hours

123

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

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# Sustainability (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Bachelor of Arts in Sustainability (SUSTBA SUS, SUSTBA PGS, SUSTBA SS)**

Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)

Program Website: louisville.edu/upa/programs/bachelors-of-sustainability
Program Information
The BA in Sustainability is an interdisciplinary approach to understanding issues, problems and solutions in sustainability, with a goal of preparing students to engage with these issues on multiple levels in the workplace and in their community.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>College/School Requirements</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>68</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>121</td>
</tr>
</tbody>
</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

Admission to the BA in Sustainability requires a minimum cumulative grade point average of 2.0.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>The following courses are required by the program and satisfy the respective General Education Requirement(s):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUST 101</td>
<td>Introduction to Sustainability - SB</td>
<td></td>
</tr>
</tbody>
</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts &amp; Sciences Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>WR - two approved courses at the 300 level or above</td>
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<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

Program/Major Requirements

Department of Urban and Public Affairs

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainability Core:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUST 101</td>
<td>Introduction to Sustainability - SB</td>
<td>3</td>
</tr>
<tr>
<td>SUST 201</td>
<td>Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>SUST 202</td>
<td>Behavioral Dimensions of Environmental Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>SUST 301</td>
<td>Sustainable Built Environment</td>
<td>3</td>
</tr>
<tr>
<td>SUST 401</td>
<td>Independent Study Sustainability - CUE</td>
<td>3</td>
</tr>
<tr>
<td>SUST 402</td>
<td>Policy and Governance in Sustainability - CUE</td>
<td>3</td>
</tr>
<tr>
<td>SUST 403</td>
<td>Sustainable Societal Systems</td>
<td>3</td>
</tr>
<tr>
<td>SUST 404</td>
<td>Sustainability Internship - CUE</td>
<td>3</td>
</tr>
<tr>
<td>SUST 518</td>
<td>Urban Demography and GIS</td>
<td>3</td>
</tr>
<tr>
<td>or PLAN 618</td>
<td>Urban Demography and GIS</td>
<td></td>
</tr>
<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 303</td>
<td>Introduction to Research Methods - WR</td>
<td></td>
</tr>
<tr>
<td>Track Requirement (see Track Requirements tab)</td>
<td></td>
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</tbody>
</table>

Supporting Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural and Social Science electives</td>
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<td>18</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>68</td>
</tr>
</tbody>
</table>

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

Culminating Undergraduate Experience (Graduation requirement)

Requirement fulfilled by completing one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUST 401</td>
<td>Independent Study Sustainability - CUE</td>
<td></td>
</tr>
<tr>
<td>SUST 404</td>
<td>Sustainability Internship - CUE</td>
<td></td>
</tr>
</tbody>
</table>

1 Completion of the intermediate level of a single foreign language
2 In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3 May be incorporated into other degree requirements
4 Outside of courses used to meet major requirements with 15 hours at the 300 level or above (in addition to courses counted toward General Education)
5 Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

Track Requirements

Policy and Governance in Sustainability (PGS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Requirements</td>
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</tr>
<tr>
<td>Select one of the following courses:</td>
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</tr>
<tr>
<td>POLS 426</td>
<td>Environmental Policy</td>
<td></td>
</tr>
<tr>
<td>PLAN 620</td>
<td>Environmental Policy</td>
<td></td>
</tr>
<tr>
<td>PLAN 673</td>
<td>Behavioral Dimensions of Urban Sustainability</td>
<td></td>
</tr>
</tbody>
</table>

1 Completion of the intermediate level of a single foreign language
2 In addition to courses counted toward General Education; 6 hours must be at 300 level or above
3 May be incorporated into other degree requirements
4 Outside of courses used to meet major requirements with 15 hours at the 300 level or above (in addition to courses counted toward General Education)
5 Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.
**PGS Elective, select one of the following courses:**

- **HIST 508**  
  American Environmental History - CUE, WR  
- **UPA 640**  
  Economic Development  
- **PLAN 623**  
  Environmental Policy and Natural Hazards  
- **PLAN 605**  
  Land Use & Planning Law

**Minimum Total Hours**

6

---

**Sustainable Societal and Urban Systems (SUS)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SUST 576</td>
<td>Sustainable Social-Ecological Systems</td>
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<tr>
<td>SUST Elective, select one of the following courses:</td>
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<td>3</td>
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<tr>
<td>ANTH 352</td>
<td>Food and Body Politic</td>
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<tr>
<td>ARTH 593</td>
<td>Studies in Modern Architecture</td>
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<tr>
<td>BIOL 401</td>
<td>Advanced Ecology</td>
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<td>BIOL 501</td>
<td>Independent Study</td>
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<tr>
<td>CEE 460</td>
<td>Transportation Systems Engineering</td>
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<tr>
<td>CEE 471</td>
<td>Water Supply and Sewerage</td>
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<tr>
<td>ECON 360</td>
<td>Environmental Economics</td>
<td></td>
</tr>
<tr>
<td>GEOG 561/</td>
<td>Urban Environmental Quality</td>
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<tr>
<td>PLAN 501</td>
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<tr>
<td>GEOS 590</td>
<td>Selected Topics in Geosciences</td>
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<tr>
<td>ME 570</td>
<td>Sustainable Energy Systems</td>
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<tr>
<td>PHIL 328</td>
<td>Environmental Ethics</td>
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<tr>
<td>POLS 363</td>
<td>Politics of Oil</td>
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**Minimum Total Hours**

6

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**Sustainable Societies (SS)**

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<tr>
<td>PLAN 670</td>
<td>Sustainable Development and Planning</td>
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<tr>
<td>or PLAN 674</td>
<td>Sustainable Urbanism</td>
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<td>ANTH 332</td>
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<td>ANTH 352</td>
<td>Food and Body Politic</td>
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<tr>
<td>ARTH 593</td>
<td>Studies in Modern Architecture</td>
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<tr>
<td>BIOL 501</td>
<td>Independent Study</td>
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<tr>
<td>BIOL 563</td>
<td>Population and Community Ecology</td>
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<tr>
<td>CJ 523</td>
<td>Race and Gender Issues in Criminal Justice - WR</td>
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<td>ECON 312</td>
<td>Urban Economics</td>
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<td>ECON 360</td>
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<td>HIST 313</td>
<td>Comparative Environmental History</td>
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<td>HIST 508</td>
<td>American Environmental History - CUE, WR</td>
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<td>GEOG 300</td>
<td>Globalization and Diversity - D2, SB</td>
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<tr>
<td>GEOG 361</td>
<td>Sustainable Human Environments - WR</td>
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<tr>
<td>GEOG 500</td>
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<td>GEOG 561/</td>
<td>Urban Environmental Quality</td>
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<tr>
<td>PHIL 328</td>
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<td>POLS 363</td>
<td>Politics of Oil</td>
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<td>POLS 426</td>
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<td>SOC 305</td>
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<td>SOC 307</td>
<td>Rural Sociology</td>
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<td>SOC 453</td>
<td>Social Change</td>
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<td>PLAN 620</td>
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<td>PLAN 623</td>
<td>Environmental Policy and Natural Hazards</td>
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**Minimum Total Hours**

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**Flight Plan**

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<td>or GEN 101</td>
<td>or Arts Sciences Orientation</td>
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<td>General Education: Cardinal Core Quantitative Reasoning - QR</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<td><strong>Hours</strong></td>
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<td>ENGL 102</td>
<td>Intermediate College Writing - WC</td>
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<td>SUST 201</td>
<td>Environmental Management</td>
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<td>or Behavioral Dimensions of Environmental Decision-Making</td>
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<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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<td>General Education: Cardinal Core Oral Communication - OC</td>
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<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical</td>
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<td><strong>Hours</strong></td>
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<td><strong>Year 2</strong></td>
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<tr>
<td>SUST 202</td>
<td>Behavioral Dimensions of Environmental Decision-Making</td>
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<td>or SUST 201</td>
<td>or Environmental Management</td>
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<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
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<td>or SOC 303</td>
<td>or Introduction to Research Methods - WR</td>
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<td>Arts and Humanities-AH</td>
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<td>Natural Science or Social Science Elective</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>15-16</td>
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<td><strong>Spring</strong></td>
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<td>SUST 301</td>
<td>Sustainable Built Environment</td>
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<td>Foreign Language 2</td>
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<td>Humanities or Natural Science elective</td>
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<td>Natural Science or Social Science elective (300 level or above)</td>
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<td><strong>Hours</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Year 3</strong></td>
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<td>SUST 402</td>
<td>Policy and Governance in Sustainability - WR</td>
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<td>3-4</td>
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<td>Humanities or Natural Science WR elective (300 level or above)</td>
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<td>Natural Science or Social Science elective (300 level or above)</td>
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<td>Natural Science or Social Science elective (300 level or above)</td>
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<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>SUST 401</td>
<td>Independent Study Sustainability - CUE</td>
<td>3</td>
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<tr>
<td>SUST 403</td>
<td>Sustainable Societal Systems</td>
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<tr>
<td>Natural Science or Social Science WR elective (300 level or above)</td>
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Theatre Arts (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Theatre Arts (TA BS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Theatre Arts (http://www.louisville.edu/a-s/ta)

Program Information
As part of the College of Arts and Sciences, the Theatre Arts is committed to a liberal arts education for our undergraduate students and professional training for graduate students. The ancient art of theatre is most fully understood and exists at its deepest form of expression through the creation of performances shared with an audience. Doing so demands a deep array of knowledge and skill combined with a professional attitude and work ethic that can serve students throughout their lives in whatever profession they pursue.

All Theatre Arts Undergraduate Majors are required to fulfill course requirements for the College of Arts and Sciences, General Education and Programmatic/Supporting Courses.

Theatre Arts Requirements are split into four core areas: Academics, Performance, Production, and African American Theatre. TA Majors also have opportunities for electives and a Culminating Undergraduate Experience in their final year.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>Program/Major Requirements</td>
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</table>

Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
There are no specific admission requirements for this degree plan.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
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<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<tr>
<td></td>
<td>The following courses are required by the program and satisfy the respective General Education Requirement(s):</td>
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<tr>
<td></td>
<td>TA 326 Cultural Diversity in Performance - AH, D1</td>
<td></td>
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<tr>
<td></td>
<td>or TA 366 History of the African-American Theatre - AH, D1, WR</td>
<td></td>
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</table>

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
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<th>Code</th>
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<td>Arts &amp; Sciences Requirements</td>
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<td>or GEN 101</td>
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<td>Foreign Language</td>
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<tr>
<td>Electives in Natural Sciences or Social Sciences at the 300-level or above</td>
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<td>6</td>
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<tr>
<td>WR—two approved courses at the 300 level or above</td>
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Program/Major Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>Department of Theatre Arts</td>
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<tr>
<td></td>
<td>Academic Core</td>
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</tbody>
</table>

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.
**Performance Core**
- TA 320 Acting I
- TA 321 Acting II
- or TA 533 Stage Management

Select one of the following:
- TA 322 Acting The Black Experience - AH, D1
- TA 330 Directing
- TA 357 Introduction to Hip-Hop Theatre - AH, D1, WR
- TA 367 Black Dramatic Literature - AH, D1

**Electives in the Division of Humanities, other than Theatre Arts, at the 300 level or above**
- HUM 596
- HUM 595
- HUM 594
- HUM 593
- HUM 592
- HUM 591

**Production Core**
- TA 240 Stagecraft I
- TA 241 Stagecraft II

Select one of the following:
- TA 340 Introduction to Scene Design
- TA 345 Introduction to Costume Design
- TA 349 Introduction to Stage Lighting

**African American Theatre Core**
- TA 326 Cultural Diversity in Performance - AH, D1
- TA 366 History of the African-American Theatre - AH, D1, WR

Select one of the following:
- TA 322 Acting The Black Experience - AH, D1
- TA 363 African-American Women in Theatre - AH, D1, WR
- TA 423 Directing the Black Experience

**Performance/Production Projects**
- TA 350 Theatre Performance and Production (6 productions, generally one-half credit each) 4
- TA 550 Culminating Undergraduate Experience Practicum - CUE

**Supporting Courses**
- Select one of the following:
  - HUM 591 Perspectives on Ancient Culture - WR
  - HUM 592 Perspectives on Medieval Culture - WR
  - HUM 593 Perspectives on Early Modern Culture - WR
  - HUM 594 Perspectives on Modern Culture - WR
  - HUM 595 Principles of Cultural History - WR
  - HUM 596 Selected Perspectives in Humanities - WR

**General Electives** 5

Minimum Total Hours 75-77

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

**Flight Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Year 1</td>
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<tr>
<td><strong>Fall</strong></td>
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</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation 1</td>
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<tr>
<td>or GEN 101</td>
<td>or Arts and Sciences Orientation</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC 3</td>
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<td>General Education: Cardinal Core Quantitative Reasoning - Q 3-4</td>
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<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH 3</td>
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<td>Foreign Language 1 3-4</td>
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<td>TA 320</td>
<td>Acting I 3</td>
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<td>Intermediate College Writing - WC 3</td>
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<tr>
<td>TA 321</td>
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<td>or TA 533</td>
<td>or Stage Management</td>
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<td>TA 371</td>
<td>Script Analysis 3</td>
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<td>TA 360</td>
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<tr>
<td>TA 241</td>
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Women's and Gender Studies (BA)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Arts in Women's and Gender Studies (WGSTBA)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Women's and Gender Studies (http://www.louisville.edu/a-s/ws)

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

Women's and gender studies is an interdisciplinary major that draws its questions and approaches from the humanities, social sciences, natural sciences, and arts. It helps students to develop theoretical, empirical, and methodological perspectives for studying gender as a crucial category for understanding the world. We offer extremely flexible scheduling for our majors: we have three core courses, offered regularly; students are allowed a fair amount of control in selecting the classes that will be most helpful to them in their chosen career path to complete the remainder of their requirements. Our students are required to engage in service learning opportunities outside the university, giving them useful career experience. Students in our program also find it easy to double major, if they so desire.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

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<th>Title</th>
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Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.

3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Some courses required in this degree program can satisfy multiple requirements. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements or reduce the number of available electives. See the Degree Requirements and Track tabs for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

**Accelerated BA-BS/MA in WGS**

Women's and Gender Studies majors who are already thinking about pursuing an MA in Women's and Gender Studies can speed up the process by applying some of their undergraduate credit hours toward a master's degree. The basic idea is to take three graduate level courses/nine hours (either 500-level with the additional graduate level assignments, or 600-level) while still an undergraduate, and then have those credits apply both toward the undergraduate degree and towards an eventual master's degree from UofL.

Students in the accelerated Master of Arts in Women's and Gender Studies program may take a maximum of nine hours for graduate credit, which will also apply to the requirements for the baccalaureate degree. To be considered for admission to the Accelerated Master of Arts in Women's and Gender Studies program, students must:

- Complete an application for admission to the Women's and Gender Studies Department's Master of Arts program (including GRE scores, transcripts, two letters of recommendation, a statement of purpose, and a writing sample) no later than the end of their junior year.
- Have a minimum overall grade point average (GPA) of 3.35, a Women's and Gender Studies GPA of 3.5, and meet all other requirements for admission to the Women's and Gender Studies Department's Master of Arts program.

Students must retain a 3.35 GPA in Women's and Gender Studies during their senior year to remain in the program. Once admitted to the accelerated BA/MA program and starting the graduate work, students are expected to maintain a full graduate load of 9 credit hours.

Students in the accelerated BA/MA program must meet all of the MA requirements including receiving at least 18 of their 36-hour program in 600-level, courses.

**Departmental Admission Requirements**

Admission to the BA in Women's and Gender Studies requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts and Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

**Accelerated BA-BS/MA in WGS**

Interested students should apply for entry into the accelerated program no later than the end of their Junior year.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
<td></td>
</tr>
<tr>
<td>Electives in Humanities, Social Sciences, or Natural Sciences at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>12</td>
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<tr>
<td>WR - two approved courses at the 300 level or above</td>
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Minimum Total Hours: 13

**College/School Requirements**

**Program/Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>WGST 401</td>
<td>Community Internship</td>
<td>3</td>
</tr>
<tr>
<td>WGST 500</td>
<td>Senior Seminar in Women's and Gender Studies: Social Sciences - CUE</td>
<td>3</td>
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Select 3 courses, of which one must be at the 400+ level: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 203</td>
<td>Gender Issues in Public Dialogue - D1, OC</td>
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<tr>
<td>WGST 207</td>
<td>Introduction to Philosophy through Cultural Diversity - AH, D2</td>
<td></td>
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<tr>
<td>WGST 303</td>
<td>Humanities and Gender - AH, D2</td>
<td></td>
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<tr>
<td>WGST 320</td>
<td>Women in Music: A History - AH, D1</td>
<td></td>
</tr>
<tr>
<td>WGST 325</td>
<td>Women and Global Literature - AH, D2</td>
<td></td>
</tr>
<tr>
<td>WGST 326</td>
<td>Gender and Children's Literature - AH, D1</td>
<td></td>
</tr>
<tr>
<td>WGST 340</td>
<td>Women and Religion</td>
<td></td>
</tr>
<tr>
<td>WGST 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
<td></td>
</tr>
<tr>
<td>WGST 346</td>
<td>Women in Africa: Historical and Literary Perspectives</td>
<td></td>
</tr>
<tr>
<td>WGST 360</td>
<td>Philosophy and Feminism - AH, D1</td>
<td></td>
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<tr>
<td>WGST 373</td>
<td>Women Writers and Filmmakers - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 375</td>
<td>LGBTQ Literature in the United States - AH, D1</td>
<td></td>
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<tr>
<td>WGST 380</td>
<td>African-American Women in Theatre - AH, D1, WR</td>
<td></td>
</tr>
<tr>
<td>WGST 395</td>
<td>Women, Media and Culture - AH, D1</td>
<td></td>
</tr>
<tr>
<td>WGST 520</td>
<td>Women's Personal Narratives</td>
<td></td>
</tr>
<tr>
<td>WGST 522</td>
<td>The Body in Popular Media - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 523</td>
<td>Gender and Popular Music - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 525</td>
<td>Art and Trauma</td>
<td></td>
</tr>
<tr>
<td>WGST 560</td>
<td>Feminist Philosophical Literature</td>
<td></td>
</tr>
<tr>
<td>WGST 571</td>
<td>Francophone Women Writers - WR</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 571</td>
<td>Francophone Women Writers - WR</td>
<td></td>
</tr>
</tbody>
</table>

The following courses are required by the program and satisfy the respective General Education Requirement(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td></td>
</tr>
</tbody>
</table>

Additional coursework may satisfy program and General Education requirements (e.g., WGST 203 or WGST 207).

All degrees require the completion of the University-wide General Education Program (link provided above) and the Departmental Admission Requirements. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.
Select one of the following:

**Elective in Women/Gender and Race**

Select 3 courses, of which one must be at the 400+ level:

- WGST 500 Gender, Race and Culture in Health Care
- WGST 510 Black Feminism in Action
- WGST 512 Gender, Race, Work, and Welfare
- WGST 513 U. S. Social Justice Movements
- WGST 540 Women's Health in Africa - WR
- WGST 543 Black Women's Voices - WR
- WGST 545 Southern Women: Black and White
- WGST 547 Language, Race, Class, and Gender
- WGST 582 Gender, Race and Culture in Health Care

**Women's and Gender Studies Social Science Electives**

<table>
<thead>
<tr>
<th>Title</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex, Gender, and Culture</td>
<td>WGST 300</td>
</tr>
<tr>
<td>Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies</td>
<td>WGST 301</td>
</tr>
<tr>
<td>Sociology of Women's Health</td>
<td>WGST 312</td>
</tr>
<tr>
<td>Sociology of Gender</td>
<td>WGST 313</td>
</tr>
<tr>
<td>Gender, Sexuality &amp; Law</td>
<td>WGST 316</td>
</tr>
<tr>
<td>Queer Politics</td>
<td>WGST 323</td>
</tr>
<tr>
<td>Communication and Gender</td>
<td>WGST 324</td>
</tr>
<tr>
<td>The History of Women, 1700 to the Present</td>
<td>WGST 331</td>
</tr>
<tr>
<td>History of Childhood in America - D1, SBH, WR</td>
<td>WGST 332</td>
</tr>
<tr>
<td>Women in Latin American History</td>
<td>WGST 333</td>
</tr>
<tr>
<td>Faces of Global Poverty - WR</td>
<td>WGST 343</td>
</tr>
<tr>
<td>Black Lesbian Lives</td>
<td>WGST 344</td>
</tr>
<tr>
<td>Racism and Sexism - D1, SB</td>
<td>WGST 347</td>
</tr>
<tr>
<td>African-American Women - WR</td>
<td>WGST 348</td>
</tr>
<tr>
<td>Color Complex of Black Women</td>
<td>WGST 349</td>
</tr>
<tr>
<td>Women in American Politics</td>
<td>WGST 355</td>
</tr>
<tr>
<td>Women's Health Issues - D1, SB</td>
<td>WGST 364</td>
</tr>
<tr>
<td>Lectures in Women's and Gender Studies</td>
<td>WGST 394</td>
</tr>
<tr>
<td>Black Feminism in Action</td>
<td>WGST 410</td>
</tr>
<tr>
<td>Psychology of Women</td>
<td>WGST 411</td>
</tr>
<tr>
<td>Gender and Work</td>
<td>WGST 414</td>
</tr>
<tr>
<td>Sociology of Disabilities</td>
<td>WGST 415</td>
</tr>
<tr>
<td>Women: International Perspective</td>
<td>WGST 458</td>
</tr>
<tr>
<td>Gender in the Middle East</td>
<td>WGST 460</td>
</tr>
<tr>
<td>Gender, Race, Work, and Welfare</td>
<td>WGST 512</td>
</tr>
<tr>
<td>U. S. Social Justice Movements</td>
<td>WGST 513</td>
</tr>
<tr>
<td>Feminism in Western Civilization, 1790-1920 - WR</td>
<td>WGST 530</td>
</tr>
<tr>
<td>Women in the Twentieth Century in Europe and the U.S. - WR</td>
<td>WGST 531</td>
</tr>
<tr>
<td>History of American Sexualities - WR</td>
<td>WGST 532</td>
</tr>
<tr>
<td>Women in 19th-Century America - WR</td>
<td>WGST 533</td>
</tr>
<tr>
<td>American Woman in Sports</td>
<td>WGST 538</td>
</tr>
<tr>
<td>Women's Health in Africa - WR</td>
<td>WGST 540</td>
</tr>
<tr>
<td>Black Women's Voices - WR</td>
<td>WGST 543</td>
</tr>
<tr>
<td>Language, Race, Class, and Gender</td>
<td>WGST 547</td>
</tr>
<tr>
<td>Feminist Theory - WR</td>
<td>WGST 556</td>
</tr>
<tr>
<td>Women in Developing Countries - WR</td>
<td>WGST 558</td>
</tr>
<tr>
<td>Women in East Asian History</td>
<td>WGST 584</td>
</tr>
</tbody>
</table>

**Elective in Women/Gender and History**

Select one of the following:

- WGST 331 The History of Women, 1700 to the Present
- WGST 332 History of Childhood in America - D1, SBH, WR
- WGST 333 Women in Latin American History
- WGST 513 U. S. Social Justice Movements
- WGST 530 Feminism in Western Civilization, 1790-1920 - WR
- WGST 531 Women in the Twentieth Century in Europe and the U.S. - WR
- WGST 532 History of American Sexualities - WR
- WGST 533 Women in 19th-Century America - WR
- WGST 545 Southern Women: Black and White
- WGST 584 Women in East Asian History

**Supporting Courses**

Select one set:

- **Set 1:** Minor in a Social Science discipline (18-21 hours) with electives at 300+ in Humanities or Natural Sciences (9 hours) OR focus in Social Sciences (18 hours, 200+ level, of Social Science electives). 12 hours must be 300+; at least 9 hours in a single Social Science discipline; only 6 hours in the Social Science focus can double-count in the major. Electives at 300+ in Humanities or Natural Sciences (9 hours).

- **Set 2:** Minor in a Natural Science discipline (18-22 hours) with electives at 300+ in Social Sciences or Humanities (9 hours) OR focus in Natural Sciences (18 hours, 200+ level, of Natural Science electives). 12 hours must be 300+; at least 9 hours in a single Natural Science discipline; only 6 hours in the Natural Science focus can double-count in the major. Electives at 300+ in Humanities or Social Sciences (9 hours).

- **Set 3:** Minor in a Humanities discipline (18-24 hours) with electives at 300+ in Social Sciences or Natural Sciences (9 hours) OR focus in Humanities (18 hours, 200+ level of Humanities electives). 12 hours must be 300+; at least 9 hours in a single Humanities discipline; only 6 hours in the Humanities focus can double-count in the major. Electives at 300+ in Social Sciences or Natural Sciences (9 hours).

**Minimum electives**

- 3

**Minimum Total Hours**

- 27-33

**University of Louisville**

**404**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
</tr>
<tr>
<td>WGST 343</td>
<td>Faces of Global Poverty - WR</td>
</tr>
<tr>
<td>WGST 344</td>
<td>Black Lesbian Lives</td>
</tr>
<tr>
<td>WGST 346</td>
<td>Women in Africa: Historical and Literary Perspectives</td>
</tr>
<tr>
<td>WGST 347</td>
<td>Racism and Sexism - D1, SB</td>
</tr>
<tr>
<td>WGST 348</td>
<td>African-American Women - WR</td>
</tr>
<tr>
<td>WGST 349</td>
<td>Color Complex of Black Women</td>
</tr>
<tr>
<td>WGST 380</td>
<td>African-American Women in Theatre - AH, D1, WR</td>
</tr>
<tr>
<td>WGST 410</td>
<td>Black Feminism in Action</td>
</tr>
<tr>
<td>WGST 510</td>
<td>Gender, Race, Work, and Welfare</td>
</tr>
<tr>
<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
</tr>
<tr>
<td>WGST 540</td>
<td>Women's Health in Africa - WR</td>
</tr>
<tr>
<td>WGST 543</td>
<td>Black Women's Voices - WR</td>
</tr>
<tr>
<td>WGST 545</td>
<td>Southern Women: Black and White</td>
</tr>
<tr>
<td>WGST 547</td>
<td>Language, Race, Class, and Gender</td>
</tr>
<tr>
<td>WGST 582</td>
<td>Gender, Race and Culture in Health Care</td>
</tr>
<tr>
<td>WGST 512</td>
<td>Gender, Race, Work, and Welfare</td>
</tr>
<tr>
<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
</tr>
<tr>
<td>WGST 540</td>
<td>Women's Health in Africa - WR</td>
</tr>
<tr>
<td>WGST 543</td>
<td>Black Women's Voices - WR</td>
</tr>
<tr>
<td>WGST 545</td>
<td>Southern Women: Black and White</td>
</tr>
<tr>
<td>WGST 547</td>
<td>Language, Race, Class, and Gender</td>
</tr>
<tr>
<td>WGST 582</td>
<td>Gender, Race and Culture in Health Care</td>
</tr>
</tbody>
</table>

**Elective in Women/Gender and Race**

Select one of the following:

- WGST 342 Black Women Novelists - AH, D2, WR
- WGST 343 Faces of Global Poverty - WR
- WGST 344 Black Lesbian Lives
- WGST 346 Women in Africa: Historical and Literary Perspectives
- WGST 347 Racism and Sexism - D1, SB
- WGST 348 African-American Women - WR
- WGST 349 Color Complex of Black Women
- WGST 380 African-American Women in Theatre - AH, D1, WR

<table>
<thead>
<tr>
<th>Code</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WGST 500</td>
<td>Senior Seminar in Women's and Gender Studies: Social Sciences - CUE</td>
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</table>
### WGST Topics/Independent Study courses

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<th>Hours</th>
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<tbody>
<tr>
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<td>Topics in Women’s and Gender Studies: Humanities</td>
<td>3</td>
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<tr>
<td>WGST 391</td>
<td>Topics in Women’s and Gender Studies: Social Sciences</td>
<td>3</td>
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<tr>
<td>WGST 392</td>
<td>Topics in Women’s and Gender Studies: Social Sciences (WR) - WR</td>
<td>3</td>
</tr>
<tr>
<td>WGST 393</td>
<td>Topics in Women’s and Gender Studies: Humanities (WR) - WR</td>
<td>3</td>
</tr>
<tr>
<td>WGST 490</td>
<td>Topics in Women’s and Gender Studies: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>WGST 491</td>
<td>Topics in Women’s and Gender Studies: Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>WGST 492</td>
<td>Topics in Women’s and Gender Studies: Social Sciences (WR)</td>
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<tr>
<td>WGST 493</td>
<td>Topics in Women’s and Gender Studies: Humanities (WR) - WR</td>
<td>3</td>
</tr>
<tr>
<td>WGST 498</td>
<td>Senior Honors Thesis: Social Sciences - WR</td>
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<tr>
<td>WGST 499</td>
<td>Senior Honors Thesis: Humanities (WR) - WR</td>
<td>3</td>
</tr>
<tr>
<td>WGST 589</td>
<td>Independent Study: Women’s and Gender Studies: Social Sciences</td>
<td>1-3</td>
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<tr>
<td>WGST 590</td>
<td>Independent Study: Women’s and Gender Studies: Humanities</td>
<td>1-3</td>
</tr>
<tr>
<td>WGST 591</td>
<td>Topics in Women’s and Gender Studies: Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>WGST 592</td>
<td>Topics in Women’s and Gender Studies: Social Sciences (WR) - WR</td>
<td>3</td>
</tr>
<tr>
<td>WGST 593</td>
<td>Topics in Women’s and Gender Studies: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>WGST 594</td>
<td>Topics in Women’s and Gender Studies: Humanities (WR) - WR</td>
<td>3</td>
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</tbody>
</table>

1. In addition to the Humanities courses required in the WGST Core
2. Completion of the intermediate level of a single foreign language
3. May be incorporated into other degree requirements
4. Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

### Flight Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation or Arts and Sciences Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
</tr>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
<td>3</td>
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</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Hours | 14 |

<table>
<thead>
<tr>
<th>Year 1</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>GEN 100</td>
</tr>
<tr>
<td>ENGL 101</td>
</tr>
<tr>
<td>WGST 201</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
</tr>
<tr>
<td>General Education: Cardinal Core Arts &amp; Humanities - AH</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 203</td>
</tr>
<tr>
<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Global Diversity - SB02</td>
</tr>
<tr>
<td>General Education: Cardinal Core Natural Sciences - S</td>
</tr>
<tr>
<td>Women’s and Gender Studies Humanities elective</td>
</tr>
</tbody>
</table>

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on “Create a What-if Advisement Report.”

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)

Women’s and Gender Studies with a 3+3 Track to Law (BA)

Bachelor of Arts in Women’s and Gender Studies with a 3+3 Track to Law (WGSTBA 3+3)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Women’s and Gender Studies (http://www.louisville.edu/a-s/ws)

Program Information
The College of Arts & Sciences and the Louis D. Brandeis School of Law have joined forces to create 3+3 Accelerated Law programs that allows eligible students in the College of Arts & Sciences to begin law school in their senior year of undergraduate study. Students substitute undergraduate major requirements with the first 30 hours of law school, earning an undergraduate degree after their first year of law school and a Juris Doctor (JD) degree two years later.

Completion of this degree requires work to be submitted for the department’s Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td>31</td>
</tr>
<tr>
<td>College/School Requirements</td>
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<tr>
<td>Program/Major Requirements</td>
<td></td>
<td>72</td>
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<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>125</td>
</tr>
</tbody>
</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission to the BA in Women’s and Gender Studies requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major. A 3.5 GPA is recommended by the School of Law (see below).

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Admission to Law School
Admission to the 3+3 track does not guarantee admission to the law school. Students seeking admission to law school must complete a law school application and satisfy all of Brandeis’ admissions requirements, including its median GPA and LSAT expectations.

It is recommended that students planning to pursue this track have a minimum cumulative GPA of 3.5.

For more information on Brandeis and its admissions requirements, please contact the law school’s Office of Admissions. The office can also arrange for you to visit the law school and to sit in on a class.

Brandeis School of Law Office of Admissions (http://louisville.edu/law/admissions)

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

The following courses are required by the program and can satisfy the respective General Education Requirement:

- WGST 201 Women in American Culture - D1, SB
- Some program guided electives also may satisfy General Education requirements.

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts &amp; Sciences Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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</tr>
<tr>
<td>Electives in Humanities or Natural Sciences at the 300 level or above</td>
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<td>9</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>WR - two approved courses at the 300 level or above</td>
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<td>Minimum Total Hours</td>
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Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women’s and Gender Studies Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGST 201</td>
<td>Women in American Culture - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>WGST 401</td>
<td>Community Internship</td>
<td>3</td>
</tr>
</tbody>
</table>
Women's and Gender Studies Humanities Electives
Select 3 courses, of which one must be at the 400+ level:

- WGST 203 Gender Issues in Public Dialogue - D1, OC
- WGST 207 Introduction to Philosophy through Cultural Diversity - AH, D2
- WGST 303 Humanities and Gender - AH, D2
- WGST 320 Women in Music: A History - AH, D1
- WGST 325 Women and Global Literature - AH, D2
- WGST 326 Gender and Children’s Literature - AH, D1
- WGST 340 Women and Religion
- WGST 342 Black Women Novelists - AH, D2, WR
- WGST 346 Women in Africa: Historical and Literary Perspectives

Women's and Gender Studies Social Science Electives
Select 3 courses, of which one must be at the 400+ level:

- WGST 360 Philosophy and Feminism - AH, D1
- WGST 373 Women Writers and Filmmakers - WR
- WGST 375 LGBTQ Literature in the United States - AH, D1
- WGST 380 African-American Women in Theatre - AH, D1, WR
- WGST 395 Women, Media and Culture - AH, D1
- WGST 520 Women's Personal Narratives
- WGST 522 The Body in Popular Media - WR
- WGST 523 Gender and Popular Music - WR
- WGST 525 Art and Trauma
- WGST 560 Feminist Philosophical Literature
- WGST 571 Francophone Women Writers - WR
- WGST 582 Gender, Race, and Culture in Health Care

Women's and Gender Studies Social Science Electives
Select 3 courses, of which one must be at the 400+ level:

- WGST 300 Sex, Gender, and Culture
- WGST 301 Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies
- WGST 312 Sociology of Women's Health
- WGST 313 Sociology of Gender
- WGST 316 Gender, Sexuality & Law
- WGST 323 Queer Politics
- WGST 324 Communication and Gender
- WGST 331 The History of Women, 1700 to the Present
- WGST 332 History of Childhood in America - D1, SBH, WR
- WGST 333 Women in Latin American History
- WGST 343 Faces of Global Poverty - WR
- WGST 344 Black Lesbian Lives
- WGST 347 Racism and Sexism - D1, SB
- WGST 348 African-American Women - WR
- WGST 349 Color Complex of Black Women
- WGST 355 Women in American Politics
- WGST 364 Women’s Health Issues - D1, SB
- WGST 394 Lectures in Women's and Gender Studies
- WGST 410 Black Feminism in Action
- WGST 411 Psychology of Women
- WGST 414 Gender and Work
- WGST 415 Sociology of Disabilities
- WGST 458 Women: International Perspective

Elective in Women/Gender Race
Select one of the following:

- WGST 342 Black Women Novelists - AH, D2, WR
- WGST 343 Faces of Global Poverty - WR
- WGST 344 Black Lesbian Lives
- WGST 346 Women in Africa: Historical and Literary Perspectives
- WGST 347 Racism and Sexism - D1, SB
- WGST 348 African-American Women - WR
- WGST 349 Color Complex of Black Women
- WGST 380 African-American Women in Theatre - AH, D1, WR
- WGST 410 Black Feminism in Action
- WGST 512 Gender, Race, Work, and Welfare
- WGST 513 U. S. Social Justice Movements
- WGST 540 Women's Health in Africa - WR
- WGST 543 Black Women's Voices - WR
- WGST 545 Southern Women: Black and White
- WGST 547 Language, Race, Class, and Gender
- WGST 582 Gender, Race and Culture in Health Care

Elective in Women/Gender History
Select one of the following:

- WGST 331 The History of Women, 1700 to the Present
- WGST 332 History of Childhood in America - D1, SBH, WR
- WGST 333 Women in Latin American History
- WGST 513 U. S. Social Justice Movements
- WGST 530 Feminism in Western Civilization, 1790-1920 - WR
- WGST 531 Women in the Twentieth Century in Europe and the U.S. - WR
- WGST 532 History of American Sexualities - WR
- WGST 533 Women in 19th-Century America - WR
- WGST 538 American Woman in Sports
- WGST 540 Women's Health in Africa - WR
- WGST 543 Black Women’s Voices - WR
- WGST 545 Southern Women: Black and White
- WGST 547 Language, Race, Class, and Gender
- WGST 558 Women in Developing Countries - WR
- WGST 584 Women in East Asian History

Elective in Women's and Gender Studies at the 300-level or above

- WGST 380 African-American Women in Theatre - AH, D1, WR
- WGST 381 American Woman in Sports
- WGST 382 Women in the Twentieth Century in Europe and the U.S. - WR
- WGST 383 History of American Sexualities - WR
- WGST 384 Black Lesbian Lives
- WGST 385 Color Complex of Black Women
- WGST 386 Black Feminism in Action
- WGST 387 Gender, Race, Work, and Welfare
- WGST 388 Women in Developing Countries - WR
- WGST 389 Women in East Asian History

Law School Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LAW 802</td>
<td>Torts I</td>
<td>3</td>
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<tr>
<td>LAW 803</td>
<td>Torts II</td>
<td>3</td>
</tr>
<tr>
<td>LAW 804</td>
<td>Contracts I</td>
<td>3</td>
</tr>
<tr>
<td>LAW 805</td>
<td>Contracts II</td>
<td>3</td>
</tr>
</tbody>
</table>
Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

To create either report:
1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
Women's and Gender Studies (BS)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Bachelor of Science in Women's and Gender Studies (WGSTBS)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Women's and Gender Studies (http://www.louisville.edu/a-s/ws)

Program Information
Women's and gender studies is an interdisciplinary major that draws its questions and approaches from the humanities, social sciences, natural sciences, and arts. It helps students to develop theoretical, empirical, and methodological perspectives for studying gender as a crucial category for understanding the world. We offer extremely flexible scheduling for our majors: we have three core courses, offered regularly; students are allowed a fair amount of control in selecting the classes that will be most helpful to them in their chosen career path to complete the remainder of their requirements. Our students are required to engage in service learning opportunities outside the university, giving them useful career experience. Students in our program also find it easy to double major, if they so desire.

Completion of this degree requires work to be submitted for the department's Student Learning Outcomes Measurement. For details, contact the department.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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<td></td>
<td>College/School Requirements</td>
<td>7-9</td>
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<td></td>
<td>Program/Major Requirements</td>
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</table>

1 Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BA-BS/MA in WGS

Women's and Gender Studies majors who are already thinking about pursuing an MA in Women's and Gender Studies can speed up the process by applying some of their undergraduate credit hours toward a master's degree. The basic idea is to take three graduate level courses/nine hours (either 500-level with the additional graduate level assignments, or 600-level) while still an undergraduate, and then have those credits apply both toward the undergraduate degree and towards an eventual master's degree from UofL.

Students in the accelerated Master of Arts in Women's and Gender Studies program may take a maximum of nine hours for graduate credit, which will also apply to the requirements for the baccalaureate degree. To be considered for admission to the Accelerated Master of Arts in Women's and Gender Studies program, students must:

- Complete an application for admission to the Women's and Gender Studies Department's Master of Arts program (including GRE scores, transcripts, two letters of recommendation, a statement of purpose, and a writing sample) no later than the end of their junior year.
- Have a minimum overall grade point average (GPA) of 3.35, a Women's and Gender Studies GPA of 3.35, and meet all other requirements for admission to the Women's and Gender Studies Department's Master of Arts program.

Students must retain a 3.35 GPA in Women's and Gender Studies during their senior year to remain in the program. Once admitted to the accelerated BA/MA program and starting the graduate work, students are expected to maintain a full graduate load of 9 credit hours.

Students in the accelerated BA/MA program must meet all of the MA requirements including receiving at least 18 of their 36-hour program in 600-level, courses.

Departmental Admission Requirements

Admission to the BS in Women's and Gender Studies requires a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 on courses in the major.

The Application for Major form can be found on the Arts & Sciences Advising Center website: louisville.edu/artsandsciences/advising/apply.

Accelerated BA-BS/MA in WGS

Interested students should apply for entry into the accelerated program no later than the end of their Junior year.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>General Education Requirements (<a href="http://catalog.louisville.edu/undergraduate/general-education-requirements">http://catalog.louisville.edu/undergraduate/general-education-requirements</a>)</td>
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The following courses are required by the program and satisfy the respective General Education Requirement(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
</tr>
</tbody>
</table>

Some program guided electives also may satisfy General Education requirements.

*All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting...
coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Arts &amp; Sciences Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN 100</td>
<td>Student Success Center Orientation</td>
<td>1</td>
</tr>
<tr>
<td>or GEN 101</td>
<td>Arts and Sciences Orientation</td>
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<tr>
<td>Foreign Language</td>
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<td>6-8</td>
</tr>
<tr>
<td>Electives in Humanities or Natural Sciences at the 300 level or above</td>
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<td>WR – two approved courses at the 300 level or above</td>
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<td>Minimum Total Hours</td>
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### Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Women's and Gender Studies Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td>3</td>
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<tr>
<td>WGST 401</td>
<td>Community Internship</td>
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<tr>
<td>WGST 500</td>
<td>Senior Seminar in Women's and Gender Studies: Social Sciences - CUE</td>
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<tr>
<td>Women's and Gender Studies Humanities Electives</td>
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<tr>
<td>Select three of the following, of which one must be at the 400+ level:</td>
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<tr>
<td>WGST 203</td>
<td>Gender Issues in Public Dialogue - D1, OC</td>
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</tr>
<tr>
<td>WGST 207</td>
<td>Introduction to Philosophy through Cultural Diversity - AH, D2</td>
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<tr>
<td>WGST 303</td>
<td>Humanities and Gender - AH, D2</td>
<td></td>
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<tr>
<td>WGST 320</td>
<td>Women in Music: A History - AH, D1</td>
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<tr>
<td>WGST 325</td>
<td>Women and Global Literature - AH, D2</td>
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<td>WGST 326</td>
<td>Gender and Children's Literature - AH, D1</td>
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<td>WGST 340</td>
<td>Women and Religion</td>
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<td>WGST 342</td>
<td>Black Women Novelists - AH, D2</td>
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<td>WGST 346</td>
<td>Women in Africa: Historical and Literary Perspectives</td>
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<tr>
<td>WGST 360</td>
<td>Philosophy and Feminism - AH, D1</td>
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<td>WGST 373</td>
<td>Women Writers and Filmmakers - WR</td>
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<td>WGST 375</td>
<td>LGBTQ Literature in the United States - AH, D1</td>
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<td>WGST 380</td>
<td>African-American Women in Theatre - AH, D1</td>
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<td>WGST 395</td>
<td>Women, Media and Culture - AH, D1</td>
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<td>WGST 520</td>
<td>Women's Personal Narratives</td>
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<td>WGST 522</td>
<td>The Body in Popular Media - WR</td>
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<td>WGST 523</td>
<td>Gender and Popular Music - WR</td>
<td></td>
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<td>WGST 525</td>
<td>Art and Trauma</td>
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<tr>
<td>WGST 560</td>
<td>Feminist Philosophical Literature</td>
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<tr>
<td>WGST 571</td>
<td>Francophone Women Writers - WR</td>
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</tr>
<tr>
<td>WGST 582</td>
<td>Gender, Race and Culture in Health Care</td>
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</tr>
<tr>
<td>Women's and Gender Studies Social Science Electives</td>
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<td>12</td>
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<tr>
<td>Select four of the following, of which one must be at the 400+ level:</td>
<td></td>
<td></td>
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<tr>
<td>WGST 300</td>
<td>Sex, Gender, and Culture</td>
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<tr>
<td>WGST 301</td>
<td>Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies</td>
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<tr>
<td>WGST 312</td>
<td>Sociology of Women's Health</td>
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<tr>
<td>WGST 313</td>
<td>Sociology of Gender</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>WGST 316</td>
<td>Gender, Sexuality &amp; Law</td>
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<tr>
<td>WGST 323</td>
<td>Queer Politics</td>
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<tr>
<td>WGST 324</td>
<td>Communication and Gender</td>
<td></td>
</tr>
<tr>
<td>WGST 331</td>
<td>The History of Women, 1700 to the Present</td>
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<tr>
<td>WGST 332</td>
<td>History of Childhood in America - D1, SBH, WR</td>
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<tr>
<td>WGST 333</td>
<td>Women in Latin American History</td>
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<tr>
<td>WGST 343</td>
<td>Faces of Global Poverty - WR</td>
<td></td>
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<tr>
<td>WGST 344</td>
<td>Black Lesbian Lives</td>
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<td>WGST 347</td>
<td>Racism and Sexism - D1, SB</td>
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<td>WGST 348</td>
<td>African-American Women - WR</td>
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<td>WGST 349</td>
<td>Color Complex of Black Women</td>
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<tr>
<td>WGST 355</td>
<td>Women in American Politics</td>
<td></td>
</tr>
<tr>
<td>WGST 364</td>
<td>Women's Health Issues - D1, SB</td>
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</tr>
<tr>
<td>WGST 394</td>
<td>Lectures in Women's and Gender Studies</td>
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<td>WGST 410</td>
<td>Black Feminism in Action</td>
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<td>WGST 411</td>
<td>Psychology of Women</td>
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<tr>
<td>WGST 414</td>
<td>Gender and Work</td>
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<tr>
<td>WGST 415</td>
<td>Sociology of Disabilities</td>
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<tr>
<td>WGST 458</td>
<td>Women: International Perspective</td>
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<tr>
<td>WGST 460</td>
<td>Gender in the Middle East</td>
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<tr>
<td>WGST 512</td>
<td>Gender, Race, Work, and Welfare</td>
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<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
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<td>WGST 530</td>
<td>Feminism in Western Civilization, 1790-1920 - WR</td>
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<td>WGST 531</td>
<td>Women in the Twentieth Century in Europe and the U.S. - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 532</td>
<td>History of American Sexualities - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 533</td>
<td>Women in 19th-Century America - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 538</td>
<td>American Woman in Sports</td>
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<tr>
<td>WGST 540</td>
<td>Women's Health in Africa - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 543</td>
<td>Black Women's Voices - WR</td>
<td></td>
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<tr>
<td>WGST 547</td>
<td>Language, Race, Class, and Gender</td>
<td></td>
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<tr>
<td>WGST 556</td>
<td>Feminist Theory - WR</td>
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</tr>
<tr>
<td>WGST 558</td>
<td>Women in Developing Countries - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 584</td>
<td>Women in East Asian History</td>
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<td>Elective in Women/Gender and Race</td>
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<td>Select one of the following:</td>
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<tr>
<td>WGST 342</td>
<td>Black Women Novelists - AH, D2, WR</td>
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<td>WGST 343</td>
<td>Faces of Global Poverty - WR</td>
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<td>WGST 346</td>
<td>Women in Africa: Historical and Literary Perspectives</td>
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<td>Racism and Sexism - D1, SB</td>
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<td>WGST 348</td>
<td>African-American Women - WR</td>
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<td>Color Complex of Black Women</td>
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<td>WGST 380</td>
<td>African-American Women in Theatre - AH, D1, WR</td>
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<td>WGST 410</td>
<td>Black Feminism in Action</td>
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<td>WGST 512</td>
<td>Gender, Race, Work, and Welfare</td>
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<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
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<td>WGST 540</td>
<td>Women's Health in Africa - WR</td>
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<td>WGST 543</td>
<td>Black Women's Voices - WR</td>
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<td>WGST 545</td>
<td>Southern Women: Black and White</td>
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<tr>
<td>WGST 547</td>
<td>Language, Race, Class, and Gender</td>
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<td>WGST 582</td>
<td>Gender, Race and Culture in Health Care</td>
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Elective in Women/Gender and History
Select one of the following: 3

- WGST 331 The History of Women, 1700 to the Present
- WGST 332 History of Childhood in America - D1, SBH, WR
- WGST 333 Women in Latin American History
- WGST 513 U. S. Social Justice Movements
- WGST 530 Feminism in Western Civilization, 1790-1920 - WR
- WGST 531 Women in the Twentieth Century in Europe and the U.S. - WR
- WGST 532 History of American Sexualities - WR
- WGST 533 Women in 19th-Century America - WR
- WGST 545 Southern Women: Black and White
- WGST 584 Women in East Asian History

Electives in Women's and Gender Studies at the 300-level or above 6

Supporting Courses
Choose one set: 27-33

Set 1: Minor in a Social Science discipline (18-21 hours) with electives at 300+ in Humanities or Natural Sciences (9 hours) OR focus in Social Sciences (18 hours, 200+ level, of Social Science electives). 12 hours must be 300+; at least 9 hours in a single Social Science discipline; only 6 hours in the Social Science focus can double-count in the major. Electives at 300+ in Humanities or Natural Sciences (9 hours).

Set 2: Minor in a Natural Science discipline (18-22 hours) with electives at 300+ in Social Sciences or Humanities (9 hours) OR focus in Natural Sciences (18 hours, 200+ level of Natural Science electives). 12 hours must be 300+; at least 9 hours in a single Natural Science discipline; only 6 hours in the Natural Science focus can double-count in the major. Electives at 300+ in Humanities or Social Sciences (9 hours).

Set 3: Minor in a Humanities discipline (18-24 hours) with electives at 300+ in Social Sciences or Humanities (9 hours) OR focus in Humanities (18 hours, 200+ level of Humanities electives). 12 hours must be 300+; at least 9 hours in a single Humanities discipline; only 6 hours in the Humanities focus can double-count in the major. Electives at 300+ in Social Sciences or Natural Sciences (9 hours).

Select one of the following Statistics, Research Methods, or Logic courses: 3

- MATH 109 Elementary Statistics - QR
- BSTA 301 Business Statistics
- CJ 326 Quantitative Analysis - QR
- PAS 408 Research Methods in Pan-African Studies - WR
- POLS 390 Contemporary Political Research
- PSYC 301 Statistics for Psychology or PSYC 302 Research Methods for Psychology
- SOC 301 Introduction to Social Statistics
- ANTH 511 Ethnographic Methods - WR
- PHIL 311 Introduction to Logic

Minimum Electives 3 3-9
Minimum Total Hours 81

**Flight Plan**

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<td>Student Success Center Orientation or GEN 101 or Arts and Sciences Orientation</td>
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<tr>
<td>ENGL 101</td>
<td>Introduction to College Writing - WC</td>
<td>3</td>
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<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
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<td>General Education: Cardinal Core Natural Sciences - S</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences Lab - SL</td>
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**Year 1**

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**Spring**

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<td>General Education: Cardinal Core Arts &amp; Humanities Global Diversity - AHD2</td>
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<td>WGST 199</td>
<td>Writing in Women's and Gender Studies - WC</td>
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<td>Gender Issues in Public Dialogue - D1, OC</td>
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<td>WGST 401</td>
<td>Community Internship</td>
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<td>WGST 500</td>
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**Minimum Total Hours** **121**

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. For both reports, please consult with your advisor before editing your course schedule.

**To create either report:**

1. Log into your ULink account.
2. Click on the Student Services tab.
3. Next, click on "View my Academic Advisement Report" to run a Degree Audit report in the Undergraduate Advising area.
4. To create a What-if report, click on "Create a What-if Advisement Report."

Click here to run a Degree Audit report, or create a What-if report. (https://ulink.louisville.edu)
MINORS

Undergraduate Minors

Minors are non-degree areas of academic focus that often complement a student’s coursework in a primary program of study. Minors are not stand-alone programs and must be completed while enrolled in an undergraduate (i.e., bachelor’s degree) program of study.

A
- Actuarial Mathematics (Minor) (p. 414)
- Aerospace Studies (Minor) (p. 414)
- Archaeology (Minor) (p. 415)
- Art (Minor) (p. 415)
- Art History (Minor) (p. 415)
- Asian Studies (Minor) (p. 416)

B
- Biology (Minor) (p. 417)
- Black Performance Studies (Minor) (p. 417)
- Business Administration (Minor) (p. 417)

C
- Chemistry (Minor) (p. 418)
- Chinese (Minor) (p. 418)
- Chinese Studies (Minor) (p. 419)
- Communication (Minor) (p. 419)
- Community Health (Minor) (p. 419)
- Computer Information Systems (Minor) (p. 420)
- Criminal Justice (Minor) (p. 420)

D
- Economics (Minor) (p. 420)
- English Creative Writing (Minor) (p. 420)
- English Literature (Minor) (p. 421)
- Entrepreneurship (Minor) (p. 421)
- Environmental Health (Minor) (p. 421)
- Equine Business (Minor) (p. 422)
- Exercise Science (Minor) (p. 422)

E
- Economics (Minor) (p. 420)
- English Creative Writing (Minor) (p. 420)
- English Literature (Minor) (p. 421)
- Entrepreneurship (Minor) (p. 421)
- Environmental Health (Minor) (p. 421)
- Equine Business (Minor) (p. 422)
- Exercise Science (Minor) (p. 422)

F
- Film Studies and Production (Minor) (p. 422)
- Finance (Minor) (p. 423)
- Forensic Anthropology (Minor) (p. 423)
- French (Minor) (p. 424)

G
- Geography (Minor) (p. 424)
- Geography (Environmental Analysis) (Minor) (p. 424)
- German (Minor) (p. 424)
- Global Public Health (Minor) (p. 425)

H
- History (Minor) (p. 426)
- Humanities (Minor) (p. 426)

I
- International Business (Minor) (p. 426)
- Italian (Minor) (p. 427)

J
- Jewish Studies (Minor) (p. 427)

K
- Latin American and Latino Studies (Minor) (p. 428)
- Leadership (Minor) (p. 429)
- LGBTQ Studies (Minor) (p. 430)
- Linguistics (Minor) (p. 430)

L
- Management (Minor) (p. 431)
- Marketing (Minor) (p. 431)
- Mathematics (Minor) (p. 432)
- Middle East and Islamic Studies (Minor) (p. 432)
- Music (Minor) (p. 432)
- Music and New Media (Minor) (p. 433)

M
- Pan-African Studies (Minor) (p. 433)
- Philosophy (Minor) (p. 433)
- Philosophy, Politics, and Economics (Minor) (p. 434)
- Physics (Minor) (p. 434)
- Political Science (Minor) (p. 434)
- Psychology (Minor) (p. 435)
- Public Health (Minor) (p. 435)

N
- Race/Gender Studies (Minor) (p. 435)
- Religious Studies (Minor) (p. 436)
- Russian Studies (Minor) (p. 437)
S
• Social Change (Minor) (p. 437)
• Socio-Cultural Anthropology (Minor) (p. 438)
• Sociology (Minor) (p. 438)
• Spanish (Minor) (p. 438)
• Sport Administration (Minor) (p. 438)

T
• Theatre Arts (Minor) (p. 439)

U
• Urban and Regional Analysis (Minor) (p. 439)

W
• Wellness Coaching (Minor) (p. 440)
• Women's and Gender Studies (Minor) (p. 440)

Actuarial Mathematics (Minor)
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Actuarial Mathematics
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Mathematics (http://www.math.louisville.edu)

Program Requirements

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<td>MATH 206</td>
<td>Calculus II</td>
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<td>MATH 301</td>
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<td>MATH 561</td>
<td>Probability</td>
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<tr>
<td>MATH 570</td>
<td>Foundations of Actuarial Science</td>
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<tr>
<td>MATH 562</td>
<td>Mathematical Statistics</td>
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</table>

Minimum Total Hours 21

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

For a minor in Mathematics, at least six (6) hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

Aerospace Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Aerospace Studies
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Aerospace Science (http://www.louisville.edu/a-s/afrotc)

Program Requirements

Track 1
For students with no prior military service

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<td>Foundations of the U.S. Air Force I</td>
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<td>Evolution of U.S. Air Power I</td>
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<td>Evolution of U.S. Air Power II</td>
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<td>AIRS 311</td>
<td>Air Force Leadership Studies I</td>
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<tr>
<td>AIRS 312</td>
<td>Air Force Leadership Studies II</td>
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<td>AIRS 411</td>
<td>National Security Affairs I</td>
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<td>AIRS 412</td>
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Select six hours from the following:

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<td>HIST 314</td>
<td>History of US Foreign Relations II</td>
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<td>POLS 330</td>
<td>International Relations</td>
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<td>POLS 333</td>
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<td>POLS 339</td>
<td>Terrorism</td>
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3-6 hours in languages (in additional to any language requirements of the student’s major)

Minimum Total Hours 22

Track II
For students who enter the program after their sophomore year or students with prior military service who have received credit for AIRS 101, AIRS 102, AIRS 201 and AIRS 202 from the Department Chair.

Students in this track who have not received credit for these courses will take them during an extended summer Field Training encampment.
**Archaeology (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Archaeology**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Department: Anthropology (http://www.louisville.edu/a-s/anthro)

**Program Requirements**

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<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
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<td>ANTH 202</td>
<td>Biological Anthropology - S</td>
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<td>ANTH 203</td>
<td>Archaeology of Human History - D2, SBH</td>
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<tr>
<td>ANTH 204</td>
<td>Archaeology - D2, SB</td>
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<td>ANTH 206</td>
<td>Principles of Archaeology - B</td>
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<td>Principles of Biological Anthropology - B</td>
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<td>ANTH 311</td>
<td>Emergence of Human Culture - SBH</td>
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<td>ANTH 312</td>
<td>Rise of Civilization</td>
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<td>ANTH 326</td>
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<td>ANTH 327</td>
<td>Fundamentals of Skeletal Forensics</td>
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<td>ANTH 330</td>
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<td>Archaeological Theory and Methods - WR</td>
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<td>Human Impacts on Past Environments</td>
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<td>ANTH 304</td>
<td>Prehistoric Archaeology Europe - SBH</td>
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Minimum Total Hours

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.
Program Requirements

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<tr>
<td>ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td></td>
</tr>
<tr>
<td>ARTH electives at 300 level, including no more than one from each of these areas: Pre-1750, After 1750, Non-Western</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Art History elective at 500 level</td>
<td></td>
<td>(6)</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Note: Admissions to the minor in Art History requires a minimum GPA of at least 2.0. The application is available on the department's web site. An approved Art BA studio major who wishes to add an art history minor should contact the department for further instructions.

Asian Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Asian Studies

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Program: Asian Studies (http://louisville.edu/asianstudies)

Note: Admission to the major requires a minimum 2.0 cumulative University of Louisville GPA.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 310</td>
<td>Introduction to Asian Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives in Humanities (excluding Asian languages)

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST/CHST 270</td>
<td>Chinese Contributions to the World - AH, D2</td>
<td>6</td>
</tr>
<tr>
<td>AST/ARTH 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td></td>
</tr>
<tr>
<td>AST/ARTH 331</td>
<td>Chinese Art</td>
<td></td>
</tr>
<tr>
<td>AST/ARTH 335</td>
<td>Twentieth Century Chinese Artists and Architecture - AH, D2</td>
<td>6</td>
</tr>
<tr>
<td>AST/ARTH 337</td>
<td>East Asia Landscape Art</td>
<td></td>
</tr>
<tr>
<td>AST/ARTH 339</td>
<td>Architecture and Gardens in China and Japan</td>
<td></td>
</tr>
<tr>
<td>AST/ARTH 531</td>
<td>Studies in Asian Art</td>
<td></td>
</tr>
<tr>
<td>AST 390</td>
<td>Topics in Asian Studies-Humanities</td>
<td></td>
</tr>
<tr>
<td>CHST: any course</td>
<td></td>
<td>(6)</td>
</tr>
<tr>
<td>HUM 307</td>
<td>East Asian Cultures - AH, D2</td>
<td></td>
</tr>
<tr>
<td>HUM 341</td>
<td>South Asian Religious Thought and Culture - AH, D2</td>
<td>6</td>
</tr>
<tr>
<td>HUM 342</td>
<td>Eastern Mysticism</td>
<td></td>
</tr>
<tr>
<td>HUM 343</td>
<td>East Asian Religious Thought and Culture - AH, D2</td>
<td></td>
</tr>
<tr>
<td>M L 270</td>
<td>Chinese Contributions to the World - AH, D2</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 18

Many departments offer topics courses that may have an Asian focus, including ARTH 342/ARTH 542 and ARTH 593; GEOG 590; HUM 511, HUM 512; M L 313; WGST 591. Such courses may apply to the minor in Asian Studies with the permission of the program director, who will determine which requirements such courses meet.

No more than 12 hours approved for the minor in Chinese Studies may also apply to the minor in Asian Studies.

Students are encouraged to participate in a study abroad program in Asia. Such a program will substitute for an elective in an area approved by the program director. Credit hours applied to the minor will be determined by the program director.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.
Biology (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Biology
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Biology (http://louisville.edu/biology)

Admission to the Minor in Biology Requires:
Completion of BIOL 240, BIOL 242 and BIOL 244 with a grade of C or better; completion of MATH 111 with a grade of C or better OR placement into a mathematics course above the level of Mathematics 111 on the basis of either the University of Louisville mathematics placement examination or ACT/SAT score; and a minimum overall grade point average of 2.0.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 240</td>
<td>Unity of Life - S</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Principles of Biology Laboratory - SL</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>Biology Electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 21

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Black Performance Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Black Performance Studies (BPS_MINOR)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Business Administration (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Business Administration
Unit: College of Business (http://business.louisville.edu)

The College of Business offers a minor in business for students in other colleges and schools at the University of Louisville. Enrollment is limited in the business minor because of the large demand for courses by business majors.

To be admitted to the minor in Business Administration and be permitted to pursue the program core coursework, a student must have completed the following:

- Fifty-one (51) or more semester hours with a cumulative grade point average of 2.8 or higher;
- ECON 201 and ECON 202; and
• The business program prerequisite coursework with a GPA of 2.8.

Upon completion of the admission requirements and formal application, the student is admitted into the Business Administration minor program based on the student’s academic performance and the space available. An appointment may be made during the semester that the program prerequisites are being completed to begin the application process.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Program Prerequisites

**Non-Business students must have a 2.8 GPA in Program Prerequisites before applying for the minor.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSTA 301</td>
<td>Business Statistics (previously BSTA 201)¹</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting ²</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting ²</td>
<td>3</td>
</tr>
</tbody>
</table>

**Business Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 301</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
</tbody>
</table>

**Business Elective**³

Minimum Total Hours: 33

2.0 GPA in Business Administration minor program core coursework and a 2.0 cumulative UofL GPA are required for graduation.

¹ The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326

² ACCT 205 may substitute for ACCT 201 and ACCT 202

³ Must be at the 300 level or above.

### Track II (Physical Science Track)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>General Chemistry II - S</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I - SL</td>
<td>2</td>
</tr>
<tr>
<td>&amp; CHEM 208</td>
<td>Introduction to Chemical Analysis II - SL</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
<td>2</td>
</tr>
<tr>
<td>&amp; CHEM 210</td>
<td>Introduction to Chemical Analysis IV</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 441</td>
<td>Elements of Physical Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 23

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

### Chinese (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Chinese**

Unit: College of Arts and Sciences (AS) (p. 90)

Department: Classical and Modern Languages

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNS 202</td>
<td>Intermediate Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHNS 301</td>
<td>Advanced Intermediate Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHNS 302</td>
<td>Advanced Intermediate Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHNS 311</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>CHNS 321</td>
<td>Chinese Conversation I</td>
<td></td>
</tr>
<tr>
<td>CHNS 322</td>
<td>Chinese Conversation II</td>
<td></td>
</tr>
<tr>
<td>CHNS 455</td>
<td>Advanced Readings in Chinese I</td>
<td></td>
</tr>
<tr>
<td>CHNS 456</td>
<td>Advanced Readings in Chinese II</td>
<td></td>
</tr>
<tr>
<td>CHNS 551</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>CHST 313</td>
<td>Special Topics</td>
<td></td>
</tr>
</tbody>
</table>
At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Chinese Studies (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Chinese Studies**

Unit: College of Arts and Sciences (AS) (http://louisville.edu/artsandsciences)

Program: Asian Studies (http://louisville.edu/asianstudies)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNS 301</td>
<td>Advanced Intermediate Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHNS 302</td>
<td>Advanced Intermediate Chinese II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>CHST 335</td>
<td>China Through Film - AH, D2</td>
<td></td>
</tr>
<tr>
<td>CHST 336</td>
<td>Chinese Culture and Tradition</td>
<td></td>
</tr>
<tr>
<td>CHST 337</td>
<td>Contemporary China</td>
<td></td>
</tr>
<tr>
<td>CHST 338</td>
<td>Doing Business in China</td>
<td></td>
</tr>
<tr>
<td>CHST 339</td>
<td>Chinese Literature in Translation I - AH, D2</td>
<td></td>
</tr>
<tr>
<td>CHST 340</td>
<td>Ethnicity and Religion in China</td>
<td></td>
</tr>
<tr>
<td>CHST 341</td>
<td>Chinese Literary Theory</td>
<td></td>
</tr>
<tr>
<td>CHST 342</td>
<td>Western Literature in China</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Communication (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Communication**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Communication (http://louisville.edu/communication)

Admission to the minor in Communication requires completion of COMM 201 with a grade of C or better and a minimum cumulative GPA of 2.0.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 201</td>
<td>Introduction to Communication - SB</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>COMM 303</td>
<td>Introduction to Communication Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 304</td>
<td>Argument In Everyday Life</td>
<td></td>
</tr>
<tr>
<td>COMM 305</td>
<td>Introduction to Mass Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 315</td>
<td>Introduction to Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 316</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communication electives at the 200-level or above</td>
<td>9-12</td>
</tr>
</tbody>
</table>

Minimum Total Hours 18-21

1. Or another social science methods course
2. Students must complete 12 hours of Communication electives if the social science methods course is taken in another discipline

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Community Health (Minor)**

Minor in Community Health

Unit: College of Education and Human Development (http://louisville.edu/education)

Department: Health and Sport Sciences (http://louisville.edu/education/departments/hss) (HSS)

The Community Health minor has been suspended to further enrollment, effective Summer 2018.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 302</td>
<td>Nutrition in Healthy Living</td>
<td>3</td>
</tr>
<tr>
<td>HSS 310</td>
<td>Healthy Lifestyles II</td>
<td>3</td>
</tr>
<tr>
<td>HSS 340</td>
<td>Epidemiology of Health, Physical Activity and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HSS 343</td>
<td>Public Health Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>HSS 341</td>
<td>Leadership in Health Promotion - CUE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 9 hours from the following:</td>
<td></td>
</tr>
<tr>
<td>HSS 364</td>
<td>Women's Health Issues - D1, SB</td>
<td>9</td>
</tr>
<tr>
<td>HSS 382</td>
<td>Wellness Coaching</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

1. Substitutions may be made with the approval of the Chinese Studies Advisor.
2. When topic is appropriate
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
<td></td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td></td>
</tr>
<tr>
<td>BUS 201</td>
<td>Career Development</td>
<td>1</td>
</tr>
<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 22

Program Prerequisites

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>One of the following statistics courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>CJ 326</td>
<td>Quantitative Analysis - QR</td>
<td></td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td></td>
</tr>
<tr>
<td>BUS 201</td>
<td>Career Development</td>
<td>1</td>
</tr>
<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

An average GPA of 2.0 in the core courses is required for graduation.

Criminal Justice (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Criminal Justice

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Criminal Justice (http://louisville.edu/justice)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 200</td>
<td>Crime and Justice in the United States - SB</td>
<td>3</td>
</tr>
<tr>
<td>CJ 201</td>
<td>Law Enforcement in the United States - SB</td>
<td>3</td>
</tr>
<tr>
<td>CJ 202</td>
<td>Corrections in the United States - SB</td>
<td>3</td>
</tr>
<tr>
<td>CJ 305</td>
<td>Criminal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CJ 306</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CJ 360</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ elective at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 21

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Economics (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Economics

Unit: College of Business (BU) (http://business.louisville.edu)  
Department: Economics (http://business.louisville.edu/economics)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Economics at 300-level or above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

Available to both business majors and non-business majors.

An average GPA of 2.0 in the minor courses is required.

English Creative Writing (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in English Creative Writing
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 300</td>
<td>Introduction to English Studies - WR</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 310</td>
<td>Writing About Literature for Non-Majors - WR</td>
<td></td>
</tr>
<tr>
<td>Two English electives in pre-1900 literature (any level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Two English electives in post-1900 literature (any level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGL 491</td>
<td>Interpretive Theory: The New Criticism to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Environmental Health (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Environmental Health

Unit: School of Public Health & Information Sciences

Admission to the program is competitive. For graduation, in addition to any other requirements, a 2.8 GPA is required in the minor program coursework.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 350</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 401</td>
<td>Entrepreneurship I</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 402</td>
<td>Entrepreneurship II</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 403</td>
<td>Entrepreneurship III</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 12

1 Students must have Junior standing and have taken ACCT 201 and ACCT 202, MGMT 301, and MKT 301 prior to enrolling in ENTR 401.
2 Students must have completed CIS 300 and FIN 301 prior to enrolling in ENTR 402.

Entrepreneurship (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Entrepreneurship

Unit: College of Business (BU)

The College of Business offers a minor in Entrepreneurship that is available to the College of Business students only.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHEH 301</td>
<td>Public Health and Our Environment</td>
<td>3</td>
</tr>
<tr>
<td>PHEH 305</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 441</td>
<td>Epidemiological Concepts and Methods for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 310</td>
<td>Environmental Epidemiology</td>
<td>1</td>
</tr>
<tr>
<td>PHEP 315</td>
<td>Environmental Health and Public Health Practices</td>
<td>2</td>
</tr>
<tr>
<td>Guided Electives (from the following list)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHEH 320</td>
<td>Environmental Policy and Risk Assessment in Public Health</td>
<td></td>
</tr>
<tr>
<td>BIOL 263</td>
<td>Environmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 395</td>
<td>Basic Pharmacology</td>
<td></td>
</tr>
<tr>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
<td></td>
</tr>
</tbody>
</table>
Equine Business (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Equine Business
Unit: College of Business (BU) (http://www.louisville.edu/business)
Department: Equine (http://business.louisville.edu/equine)
Program: Equine Industry Program

The minor in Equine Business is open to all students at the University of Louisville.

Completion of business program prerequisites with a 2.8 GPA is required for acceptance into the Equine Business minor. Upon completion of the admission requirements and a formal application, the student is admitted into the minor based on the student’s academic performance.

For graduation, in addition to all other degree requirements, a 2.0 GPA is required in the equine courses.

Students who are not enrolled in the College of Business, may contact Terri Burch at 852–4859 for more information about the minor.

Program Prerequisites

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics (or equivalent coursework)</td>
<td>3</td>
</tr>
<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 302</td>
<td>Equine Economics</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 304</td>
<td>Equine Marketing</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 403</td>
<td>Equine Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>Equine Business (EQIN) electives 2</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

1 The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326
2 Any equine course except EQIN 402 and Co-Op

Exercise Science (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Exercise Science
Unit: College of Education and Human Development (http://www.louisville.edu/edu)
Department: Health and Sports Sciences (HSS) (http://www.louisville.edu/edu/hpes)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 202</td>
<td>Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HSS 320</td>
<td>Growth and Motor Development Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>HSS 387</td>
<td>Biomechanics 1</td>
<td>3</td>
</tr>
<tr>
<td>HSS 388</td>
<td>Principles of Athletic Conditioning 1</td>
<td>3</td>
</tr>
<tr>
<td>HSS 394</td>
<td>Foundations of Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HSS 395</td>
<td>Fitness Assessment and Prescription 1</td>
<td>3</td>
</tr>
<tr>
<td>HSS 396</td>
<td>Lab Methods in Fitness Evaluation 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 21

1 Please note that these courses have prerequisite requirements which may not be listed in the courses above.

A 2.50 GPA is required in the minor, and all courses must be completed at a C- or above.

Film Studies and Production (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Film Studies and Production
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Communication (http://comm.louisville.edu/department)
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 224</td>
<td>Introduction to Film - AH, D2</td>
<td>3</td>
</tr>
<tr>
<td>HUM 324</td>
<td>Approaches to Film Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>COMM 335</td>
<td>Video Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or COMM 338 Introduction to Film Production</td>
<td></td>
</tr>
<tr>
<td>COMM 336</td>
<td>Video Communication II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or COMM 339 Fiction Film Production</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two courses from the following:</td>
<td>6</td>
</tr>
<tr>
<td>CHST 335</td>
<td>China Through Film - AH, D2</td>
<td></td>
</tr>
<tr>
<td>FREN 329</td>
<td>Survey in Literature and Film</td>
<td></td>
</tr>
<tr>
<td>HUM 325</td>
<td>Survey of Film and Culture</td>
<td></td>
</tr>
<tr>
<td>HUM 524</td>
<td>Special Topics in Film Study</td>
<td></td>
</tr>
<tr>
<td>PAS 341</td>
<td>Black Film and Literature - AH, D1</td>
<td></td>
</tr>
<tr>
<td>COMM 326</td>
<td>African Americans in American Media</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two courses from the following:</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>CHST 335 China Through Film - AH, D2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FREN 329 Paris in Literature and Film</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HUM 325 Survey of Film and Culture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HUM 524 Special Topics in Film Study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PAS 341 Black Film and Literature - AH, D1</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

1 May be taken twice with two different topics.
2 In addition to the listed electives, relevant special topics courses at or above the 300-level may be counted in the minor with the approval of the Director of Film Studies and Production.

No more than six (6) hours taken to fulfill this minor may also be applied to the student's major program.

A minimum of three (3) hours for the minor must be completed while enrolled at the University of Louisville.

Finance (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Finance

Unit: College of Business (BU) (http://business.louisville.edu)
Department: Finance (http://business.louisville.edu/finance)

The College of Business offers a minor in Finance available to all UofL students. Completion of program prerequisites with a 2.8 grade point average and a 2.8 cumulative grade point average is required before enrolling in the Finance minor program core courses.

For graduation (in addition to all other degree requirements) a 2.0 GPA is required in the Finance minor courses.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics (previously BSTA 201)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 33

2.0 GPA in Finance minor program core coursework and a 2.0 cumulative UofL GPA are required for graduation.

1 The following courses will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326

Forensic Anthropology (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Forensic Anthropology

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Anthropology (http://www.louisville.edu/a-s/anthro)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 202</td>
<td>Biological Anthropology - S</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 207</td>
<td>Principles of Biological Anthropology - B</td>
<td></td>
</tr>
<tr>
<td>ANTH 204</td>
<td>Archaeology - D2, SB</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 206</td>
<td>Principles of Archaeology - B</td>
<td></td>
</tr>
<tr>
<td>ANTH 327</td>
<td>Fundamentals of Skeletal Forensics</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 410</td>
<td>Skeletal Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I - S</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 260</td>
<td>Human Anatomy &amp; Physiology I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ANTH 329</td>
<td>Zooarchaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 354</td>
<td>Anthropology of Infectious Disease</td>
<td></td>
</tr>
<tr>
<td>ANTH 377</td>
<td>Field Methods in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 401</td>
<td>Cooperative Internship in Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 510</td>
<td>Methods in Biological Anthropology - WR</td>
<td></td>
</tr>
<tr>
<td>ANTH 512</td>
<td>Methods in Skeletal Forensics - WR</td>
<td></td>
</tr>
<tr>
<td>CJ 355</td>
<td>Criminalistics</td>
<td></td>
</tr>
<tr>
<td>CJ 425</td>
<td>Profiling Violent Crimes</td>
<td></td>
</tr>
<tr>
<td>PSYC 383</td>
<td>Forensic Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 21-23

1 Meets the A&S upper-level requirement in written communication (WR)

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.
French (Minor)
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in French
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Classical and Modern Languages (https://louisville.edu/modernlanguages)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 320</td>
<td>French Skills Overview</td>
<td>3</td>
</tr>
<tr>
<td>FREN 321</td>
<td>French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 322</td>
<td>Written Expression - WR</td>
<td>3</td>
</tr>
<tr>
<td>Electives in French at the 300 level or above</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Geography (Environmental Analysis) (Minor)
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Environmental Analysis
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Geography (http://louisville.edu/geography)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 200</td>
<td>Human Geography in a Changing World - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Introduction to Mapping and Geospatial Technologies</td>
<td></td>
</tr>
<tr>
<td>GEOG 355</td>
<td>Introduction to Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 558</td>
<td>Introduction to Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>Select one advanced Social Geography course from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEOG 327</td>
<td>Economic Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 328</td>
<td>Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 331</td>
<td>Population Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 530</td>
<td>Transportation Geography</td>
<td></td>
</tr>
<tr>
<td>Select one advanced Geosciences course from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEOG 363</td>
<td>Climate Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 367</td>
<td>Geomorphology</td>
<td></td>
</tr>
<tr>
<td>Electives in Geography or Geosciences</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Minimum Total Hours 21

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

German (Minor)
This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in German
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Classical and Modern Languages (http://louisville.edu/modernlanguages)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 123</td>
<td>Basic German III</td>
<td>4</td>
</tr>
<tr>
<td>GERM 201</td>
<td>Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>GERM 202</td>
<td>Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>GERM 321</td>
<td>German Conversation and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GERM 311</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>GERM 313</td>
<td>Readings in German Literature: Themes and Great Issues</td>
<td></td>
</tr>
</tbody>
</table>

1 Must be an environmental topic.
At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Global Public Health (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Global Public Health**

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences); School of Public Health (http://louisville.edu/sphis)

Department: Liberal Studies (http://louisville.edu/liberalstudies)

A collaboration between the Department of Anthropology, The School of Public Health and Information Sciences, and the Program in Liberal Studies – the Individualized Majors Program, the minor in Global Public Health is designed to familiarize students with global public health from a liberal arts perspective. The minor includes an introduction to relevant theoretical frameworks from public health, global health, and social medicine. The program is intended to complement study in major fields across the University by students interested in health problems, professions, and policies. Housed administratively within the Program in Liberal Studies, the minor is available to students within any major; students in the Program in Liberal Studies can use the minor to anchor their interdisciplinary program.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 351</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 354</td>
<td>Anthropology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 401</td>
<td>Epidemiological Concepts and Methods for Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Health Studies Electives**

Select three of the following:  

- ANTH 305 | Genes, Peoples and Evolution
- ANTH 306 | Human Biological Variation
- ANTH 309 | Sex, Gender and Culture
- ANTH 310 | Race, Culture, Identity
- ANTH 315 | The Anthropology of Europe - SB
- ANTH 317 | Anthropology of China - D2, SB
- ANTH 319 | Cultures of the Middle East
- ANTH 323 | Cultures of Africa - D2, SB
- ANTH 325 | The Anthropology of Latin America - D2, SB
- ANTH 332 | Ecology, Politics and Culture
- ANTH 333 | Globalizing Inequalities - WR
- ANTH 338 | Anthropology of Refugees
- ANTH 340 | Human Rights
- ANTH 352 | Food and Body Politic
- ANTH 534 | Food and Farm Movements in the Americas

Minimum Total Hours: 19

1. No more than 6 hours in any one department

Alternative electives may be used if approved in advance by the Director or the Assistant Director of the Global Public Health program. Consult the Department of Anthropology or the School of Public Health and Information Sciences Advising Office for details.

Up to, but no more than, six credit hours from a student's major may count towards the minor.
At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**History (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in History**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Department: History (http://louisville.edu/history)

---

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 211</td>
<td>American History I - D1, SBH</td>
<td>6</td>
</tr>
<tr>
<td>HIST 212</td>
<td>American History II - D1, SBH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective in European area at 300 level or above</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective in Asian, Africa, and Latin American area (includes courses on the Middle East) at 300 level or above</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives in History ¹</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

¹ May not include HIST 101/HIST 102.

At least three (3) hours of the courses for the minor must be at the 500 level.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Humanities (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Humanities**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Department: Comparative Humanities (http://louisville.edu/humanities)

---

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One 100- or 200-level HUM course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One 300-level HUM course ¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One 500-level HUM course</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ May not include HIST 101/HIST 102.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**International Business (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in International Business**

Unit: College of Business (BU) (http://business.louisville.edu)

The Minor in International Business program is open to College of Business students only.

If academically planned, the International Business minor course requirements can be incorporated within the undergraduate degree program requirements.

An international experience is required for the minor (students admitted after Spring 2012). Contact the College of Business advising center for details.

---

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foreign Language Requirement ¹</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select two International Business Courses: ²</td>
<td>6</td>
</tr>
<tr>
<td>ECON 431</td>
<td>International Trade</td>
<td></td>
</tr>
<tr>
<td>ECON 439</td>
<td>Emerging Market Economies</td>
<td></td>
</tr>
<tr>
<td>FIN 370</td>
<td>International Finance</td>
<td></td>
</tr>
<tr>
<td>MKT 311</td>
<td>Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>MKT 370</td>
<td>Global Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Arts &amp; Sciences International Course: ²</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 317</td>
<td>Anthropology of China - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Cultures of the Middle East</td>
<td></td>
</tr>
<tr>
<td>ANTH 323</td>
<td>Cultures of Africa - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 324</td>
<td>Iberian Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 325</td>
<td>The Anthropology of Latin America - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 347</td>
<td>Global Capitalisms</td>
<td></td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of Civilizations II - D2, SB</td>
<td></td>
</tr>
<tr>
<td>HIST 309</td>
<td>Europe from 1800 to the Present</td>
<td></td>
</tr>
<tr>
<td>HIST 332</td>
<td>Latin America, 1820 to Present</td>
<td></td>
</tr>
<tr>
<td>HIST 361</td>
<td>Modern Jewish History: The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 362</td>
<td>The United States and the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 364</td>
<td>Russian History II</td>
<td></td>
</tr>
<tr>
<td>HIST 369</td>
<td>History of France, 1799 to Present</td>
<td></td>
</tr>
<tr>
<td>HIST 394</td>
<td>African History Since 1800 - D2, SB</td>
<td></td>
</tr>
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<td>HIST 395</td>
<td>Contemporary Africa</td>
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<tr>
<td>HIST 396</td>
<td>History of India</td>
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</tr>
<tr>
<td>HIST 398</td>
<td>Modern China</td>
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</tr>
<tr>
<td>HUM 216</td>
<td>Introduction to World Religions - AH, D2</td>
<td></td>
</tr>
<tr>
<td>HUM 306</td>
<td>Survey of Islamic Thought and Culture</td>
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</tr>
</tbody>
</table>
Italian (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Italian
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Classical and Modern Languages (https://louisville.edu/modernlanguages)

The Italian minor program is not currently accepting applications for admission.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 123</td>
<td>Basic Italian III</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 321</td>
<td>Italian Conversation</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 322</td>
<td>Italian Composition</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Italian at the 300 level or above</td>
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<tr>
<td>Minimum Total Hours</td>
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</table>

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Italian (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Italian
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Classical and Modern Languages (https://louisville.edu/modernlanguages)

The Italian minor program is not currently accepting applications for admission.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 123</td>
<td>Basic Italian III</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 321</td>
<td>Italian Conversation</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 322</td>
<td>Italian Composition</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Italian at the 300 level or above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Jewish Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Jewish Studies
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Comparative Humanities (http://louisville.edu/humanities)

The student may choose either the Cultural Studies or the Language and Culture option.

For either options, at least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Program Requirements

Jewish Cultural Studies Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HUM 309</td>
<td>Survey of Jewish Thought and Culture</td>
<td>3</td>
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Jewish Studies Electives 1

Select five of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HIST 360</td>
<td>The Origins of Islam</td>
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</tr>
<tr>
<td>HIST 361</td>
<td>Modern Jewish History: The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HUM 311</td>
<td>Hebrew Bible/ Old Testament</td>
<td></td>
</tr>
<tr>
<td>HUM 315</td>
<td>Alternative Judaisms - AH, D2</td>
<td></td>
</tr>
<tr>
<td>HUM 317</td>
<td>Modern Jewish Thought</td>
<td></td>
</tr>
<tr>
<td>HUM 361</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>HUM 362</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>HUM 387</td>
<td>The Holocaust, Genocide, and Global Imagination - D2, SBH</td>
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</tr>
<tr>
<td>HUM 511</td>
<td>Topics in the Interpretation of Sacred Texts</td>
<td></td>
</tr>
<tr>
<td>HUM 512</td>
<td>Topics in Contemporary Religious Thought</td>
<td></td>
</tr>
<tr>
<td>HUM 513</td>
<td>Topics in Comparative Religions</td>
<td></td>
</tr>
<tr>
<td>HUM 514</td>
<td>Perspectives on Religious Coexistence and Conflict</td>
<td></td>
</tr>
<tr>
<td>HUM 596</td>
<td>Selected Perspectives in Humanities - WR</td>
<td></td>
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</tbody>
</table>

Minimum Total Hours 21

1 A minimum of 8 hours must be in the same language.

2 Effective Summer 2010, 3 hours of International Business or Arts & Science International course requirements will be waived if the student participates in a Study Abroad Program with approval by the College of Business. The duration of the program must be a minimum of three months.

Jewish Language and Culture Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HEBR 201</td>
<td>Intermediate Hebrew I &amp; HEBR 202 Intermediate Hebrew II</td>
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</tr>
<tr>
<td>HUM 309</td>
<td>Survey of Jewish Thought and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Jewish Studies Electives 3

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 360</td>
<td>The Origins of Islam</td>
<td></td>
</tr>
<tr>
<td>HIST 361</td>
<td>Modern Jewish History: The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HUM 311</td>
<td>Hebrew Bible/ Old Testament</td>
<td></td>
</tr>
<tr>
<td>HUM 315</td>
<td>Alternative Judaisms - AH, D2</td>
<td></td>
</tr>
<tr>
<td>HUM 317</td>
<td>Modern Jewish Thought</td>
<td></td>
</tr>
<tr>
<td>HUM 361</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>HUM 362</td>
<td>Selected Topics</td>
<td></td>
</tr>
</tbody>
</table>
Latin American and Latino Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Latin American and Latino Studies
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Program: Latin American and Latino Studies (http://louisville.edu/latinamericanstudies)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 380</td>
<td>Culture of Iberia-Latin America</td>
<td></td>
</tr>
<tr>
<td>HUM 382</td>
<td>Native American Cultures</td>
<td></td>
</tr>
<tr>
<td>HUM 562</td>
<td>Selected Topics 1</td>
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</tr>
<tr>
<td>LALS 200</td>
<td>Exploring Latin America - AH, D2</td>
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<tr>
<td>LALS 313</td>
<td>Panamanian Culture - D2, SB</td>
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<tr>
<td>M L 260</td>
<td>Introduction to Hispanic Culture - AH, D2</td>
<td></td>
</tr>
<tr>
<td>M L 313</td>
<td>Special Topics in Language, Literature, or Culture</td>
<td></td>
</tr>
<tr>
<td>M L 356</td>
<td>Latin American Literature</td>
<td></td>
</tr>
<tr>
<td>M L 551</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>SPAN 313</td>
<td>Special Topics in Spanish Literature, Language, and Culture 1</td>
<td></td>
</tr>
<tr>
<td>SPAN 403</td>
<td>Foundations of Latin American Nations and Identities</td>
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<td>SPAN 404</td>
<td>Cultural and Literary Perspectives on Modern Latin America</td>
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<td>SPAN 499</td>
<td>Special Topics in Spanish Culture, Literature and Linguistics 1</td>
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<tr>
<td>SPAN 524</td>
<td>Introduction to Hispanic Linguistics</td>
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<tr>
<td>SPAN 527</td>
<td>Latin American Literature: Colonial Period through 19th Century</td>
<td></td>
</tr>
<tr>
<td>SPAN 528</td>
<td>Contemporary Spanish-American Theatre</td>
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</tr>
<tr>
<td>SPAN 529</td>
<td>Spanish-American Poetry</td>
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<tr>
<td>SPAN 530</td>
<td>Spanish-American Narrative</td>
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<tr>
<td>SPAN 554</td>
<td>Hispanic Culture through Film and Media</td>
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</tr>
<tr>
<td>SPAN 599</td>
<td>Special Topics 1</td>
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<tr>
<td>TA 326</td>
<td>Cultural Diversity in Performance - AH, D1</td>
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<tr>
<td>TA 365</td>
<td>Theatre of the African World - AH, D2</td>
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<tr>
<td>TA 555</td>
<td>Special Topics in Theatre</td>
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<tr>
<td>One course in Social Sciences, chosen from the following:</td>
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</tr>
<tr>
<td>ANTH 316</td>
<td>Ancient Civilizations of Mesoamerica</td>
<td></td>
</tr>
<tr>
<td>ANTH 325</td>
<td>The Anthropology of Latin America - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 333</td>
<td>Globalizing Inequalities - WR</td>
<td></td>
</tr>
<tr>
<td>ANTH 338</td>
<td>Anthropology of Refugees</td>
<td></td>
</tr>
<tr>
<td>ANTH 562</td>
<td>Special Topics in Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>COMM 450</td>
<td>Advanced Intercultural Communication - CUE, WR</td>
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</tr>
<tr>
<td>COMM 510</td>
<td>Special Topics in Communication Studies 1</td>
<td></td>
</tr>
<tr>
<td>GEOG/LALS 510</td>
<td>Urbanism in the Global South: Cities and Space</td>
<td></td>
</tr>
<tr>
<td>HIST 310</td>
<td>Studies in History</td>
<td></td>
</tr>
<tr>
<td>HIST 331</td>
<td>Colonial Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 332</td>
<td>Latin America, 1820 to Present</td>
<td></td>
</tr>
<tr>
<td>HIST 333</td>
<td>Women in Latin American History</td>
<td></td>
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<tr>
<td>HIST 503</td>
<td>Advanced Studies in History</td>
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</tr>
<tr>
<td>HIST 533</td>
<td>Twentieth-Century Latin America - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 534</td>
<td>The U.S. and Latin America - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 535</td>
<td>The History of Mexico: Pre-Columbian to the Present - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HON 436</td>
<td>Honors Seminar in Humanities (WR) - WR 1</td>
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<tr>
<td>HON 446</td>
<td>Honors Seminar in Social Sciences (WR) - WR 1</td>
<td></td>
</tr>
<tr>
<td>LALS 317</td>
<td>Social Sciences Special Topics in Latino Studies</td>
<td></td>
</tr>
<tr>
<td>LALS 321</td>
<td>Social Science Special Topics in Latin American Studies</td>
<td></td>
</tr>
<tr>
<td>MKT 370</td>
<td>Global Marketing</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

1 Students should take four courses in Ancient/Modern Jewish History and Society (to be designated as such and published by the Jewish Studies program director each semester). Students are strongly encouraged to take at least one course in Ancient Jewish History and Society and at least one course in Modern Jewish History and Society.

2 The equivalent in Arabic or Yiddish may also be accepted with the permission of the Jewish Studies advisor.

3 Students should take four courses in Ancient/Modern Jewish History and Society (to be designated as such and published by the Jewish Studies program director each semester). Students are strongly encouraged to take at least one course in Ancient Jewish History and Society and at least one course in Modern Jewish History and Society.

Spanish or Portuguese at the 200 level or above 3

One course in a Humanities area, chosen from the following: 3
Leadership (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Leadership
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Military Science (http://louisville.edu/armyrotc)

Program Requirements

Track I (MILSMINOR)
For students with no prior military service

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 101</td>
<td>Leadership and Adventure I</td>
<td>1</td>
</tr>
<tr>
<td>MILS 102</td>
<td>Leadership and Adventure II</td>
<td>1</td>
</tr>
<tr>
<td>MILS 201</td>
<td>Intermediate Leadership Skill Development I</td>
<td>2</td>
</tr>
<tr>
<td>MILS 202</td>
<td>Intermediate Leadership Skill Development II</td>
<td>2</td>
</tr>
<tr>
<td>MILS 301</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>MILS 302</td>
<td>Theory and Dynamics of the Military Team</td>
<td>3</td>
</tr>
<tr>
<td>MILS 401</td>
<td>Mission Command and the Army Profession</td>
<td>3</td>
</tr>
<tr>
<td>MILS 402</td>
<td>Mission Command and the Company Grade Officer</td>
<td>3</td>
</tr>
<tr>
<td>HIST 418</td>
<td>United States Military History</td>
<td>3</td>
</tr>
</tbody>
</table>

or HIST 419 | Western Military History - WR

Physical Training
Select two of the following:

| MILS 311 | Army Physical Fitness I                                  |     |
| MILS 312 | Army Physical Fitness II                                 |     |
| MILS 411 | Army Physical Fitness III                                |     |
| MILS 412 | Army Physical Fitness IV                                 |     |

Minimum Total Hours 23

Track II (MIL2MINOR)
For students with two or more years prior military service or completion of basic training.

Students in this track are exempt from MILS 101, MILS 102, MILS 201, and MILS 202.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MILS 301</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>MILS 302</td>
<td>Theory and Dynamics of the Military Team</td>
<td>3</td>
</tr>
<tr>
<td>MILS 401</td>
<td>Mission Command and the Army Profession</td>
<td>3</td>
</tr>
<tr>
<td>MILS 402</td>
<td>Mission Command and the Company Grade Officer</td>
<td>3</td>
</tr>
<tr>
<td>HIST 418</td>
<td>United States Military History</td>
<td>3</td>
</tr>
</tbody>
</table>

or HIST 419 | Western Military History - WR

Physical Training
Select two of the following:

| MILS 311 | Army Physical Fitness I                                  |     |
| MILS 312 | Army Physical Fitness II                                 |     |
| MILS 411 | Army Physical Fitness III                                |     |
| MILS 412 | Army Physical Fitness IV                                 |     |

Minimum Total Hours 21

Course substitutions must be approved by the Director of Latin American and Latino Studies program.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Special Topics Courses – content varies by semester. Subject to advisor approval.

The electives may be fulfilled by taking additional courses one of the courses listed above.
Select three hours from the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 314</td>
<td>History of US Foreign Relations II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 362</td>
<td>The United States and the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 376</td>
<td>War in the Modern Middle East - WR</td>
<td></td>
</tr>
<tr>
<td>HIST 386</td>
<td>Modern Germany, 1848-1945: The Struggle for Unity</td>
<td></td>
</tr>
<tr>
<td>HIST 522</td>
<td>The American Revolution and the Confederation - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 524</td>
<td>United States Civil War and Reconstruction - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 559</td>
<td>U.S. and the Cold War Policy - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 563</td>
<td>The Middle Eastern Wars - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>POLS 330</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td>POLS 333</td>
<td>American Foreign Policy</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 20

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

LGBTQ Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in LGBTQ Studies
Unit: Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Women's and Gender Studies (http://louisville.edu/wgs)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 301</td>
<td>Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four courses from the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 323</td>
<td>Queer Politics</td>
<td></td>
</tr>
<tr>
<td>WGST 344</td>
<td>Black Lesbian Lives</td>
<td></td>
</tr>
<tr>
<td>WGST 313/SOC 327</td>
<td>Sociology of Gender</td>
<td></td>
</tr>
<tr>
<td>WGST 316</td>
<td>Gender, Sexuality &amp; Law</td>
<td></td>
</tr>
<tr>
<td>WGST/ENGL 375</td>
<td>LGBTQ Literature in the United States - AH, D1</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

1 Topics courses in Women's and Gender Studies may be substituted for one or more of these courses, with approval of the department chair.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Linguistics (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Linguistics
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Comparative Humanities

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING/ENGL 325</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LING 518</td>
<td>Foundations of Language</td>
<td></td>
</tr>
</tbody>
</table>

Select two courses from the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING/ENGL 330</td>
<td>Language and Culture - AH, D1</td>
<td>6</td>
</tr>
<tr>
<td>LING 328</td>
<td>Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LING/PHIL 341</td>
<td>Philosophy of Language - WR</td>
<td></td>
</tr>
<tr>
<td>LING 390</td>
<td>Special Topics in Language 1</td>
<td></td>
</tr>
</tbody>
</table>

Track A or Track B (see courses below)  

Approved LING elective  

Minimum Total Hours 18

Track A: Theoretical Track

Select two of the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING/ENGL 522</td>
<td>Structure of Modern English</td>
<td>6</td>
</tr>
<tr>
<td>LING/ENGL 523</td>
<td>History of the English Language</td>
<td></td>
</tr>
<tr>
<td>LING/PSYC 524</td>
<td>Psycholinguistics</td>
<td></td>
</tr>
<tr>
<td>LING 590</td>
<td>Special Topics in Linguistics 3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 6
### Track B: Applied/ESL Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>LING/ENGL</td>
<td>World Englishes</td>
<td></td>
</tr>
<tr>
<td>520</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING/ENGL</td>
<td>Topics in Applied Linguistics</td>
<td></td>
</tr>
<tr>
<td>535</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING/ENGL</td>
<td>Language and Social Identity</td>
<td></td>
</tr>
<tr>
<td>570</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING 590</td>
<td>Special Topics in Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 6

1. As approved by Linguistics Advisor
2. Electives may include 1) another course from the student’s track; 2) a course from the track that the student is not pursuing; 3) FREN 522 or SPAN 524; or 4) another LING course approved by Linguistics Advisor.
3. Only one course in LING 590 (Applied Topics) may be used.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

### Management (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

#### Minor in Management

Unit: College of Business (BU) (http://www.louisville.edu/business)
Department: Management (http://business.louisville.edu/management)

The College of Business offers a minor in management available to all University of Louisville students.

For graduation, in addition to all other degree requirements, a 2.0 GPA in Management minor program core coursework and a 2.0 cumulative UofL GPA are required for graduation.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Program Prerequisites</td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics  - SB</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Prerequisites**

- Non-Business students must have a 2.8 GPA in Program Prerequisites before applying for the minor.
- ECON 201 Principles of Microeconomics – SB
- ECON 202 Principles of Macroeconomics – SB

#### Management Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 205</td>
<td>Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>CIS 305</td>
<td>Data Analysis for Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 301</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 404</td>
<td>Project Management 2,3</td>
<td>3</td>
</tr>
</tbody>
</table>

Management Electives, selected from the following:

- MGMT 305 | Human Resource Management | 3     |
- MGMT 440 | Small Business Counseling | 3     |
- MGMT 441 | Business Strategy and Policy | 3     |
- MGMT 458 | Management Decision Making | 3     |
- MGMT 460 | Images of Leadership | 3     |
- MGMT Internship (with approval) | 3     |

Minimum Total Hours: 24

1. Course must be passed with a grade of B or higher.
2. BSTA 301 or other statistics course is required before enrollment in MGMT 404.
3. MGMT 404 must be taken prior to the other Management electives.

### Marketing (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

#### Minor in Marketing

Unit: College of Business (BU) (http://business.louisville.edu)
Department: Marketing (http://business.louisville.edu/marketing)

The College of Business offers a minor in Marketing available to all University of Louisville students.

To pursue a minor in marketing the student must have completed 51 or more semester hours, with a cumulative grade point average of 2.8 or higher. Students interested in pursuing a minor in Marketing must complete the business program prerequisites. Students must have a grade point average of 2.8 or higher in the business program prerequisites to be permitted to pursue the Marketing program core.

Upon completion of the admission requirements and formal application, the student is admitted into the Minor in Marketing program based on the student’s academic performance.

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Program Prerequisites</td>
<td></td>
</tr>
<tr>
<td>BSTA 301</td>
<td>Business Statistics (previously BSTA 201)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics – SB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics – SB</td>
<td>3</td>
</tr>
</tbody>
</table>

**Marketing Core**

- CIS 205 | Information Systems in Organizations | 3     |
- CIS 305 | Data Analysis for Decision-Making | 3     |
- MKT 301 | Principles of Marketing 2     | 3     |

Marketing Electives (300-level or higher) 2,3,4

Minimum Total Hours: 27

- 2.0 GPA in Marketing minor program core coursework and a 2.0 cumulative UofL GPA are required for graduation.
1. The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326
2. SPAD 383 cannot substitute for MKT 301 or be counted as a marketing elective.
3. Marketing minors are not permitted to take College of Business Co-ops.
4. At least 6 hours of MKT electives must be taken at the University of Louisville.
Mathematics (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Mathematics
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Mathematics (http://www.math.louisville.edu)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 311</td>
<td>Introduction to Higher Math</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics electives in courses numbered 190 or above</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 21

For a minor in Mathematics, 6 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

1 Mathematics and Social Science discipline courses taught as Special Topics with a focus on Middle East or Islamic Studies may be used in this area with the approval of the MEIS advisor.

Middle East and Islamic Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Middle East and Islamic Studies
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 376</td>
<td>War in the Modern Middle East - WR</td>
<td></td>
</tr>
<tr>
<td>HIST 377</td>
<td>The Ottoman Empire to 1800</td>
<td></td>
</tr>
<tr>
<td>HIST 378</td>
<td>The Ottoman Empire and Modern Turkey from 1800 - WR</td>
<td></td>
</tr>
<tr>
<td>HIST 563</td>
<td>The Middle Eastern Wars - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 564</td>
<td>Byzantium and Islam</td>
<td></td>
</tr>
<tr>
<td>HIST 593</td>
<td>American Image of the Middle East - CUE</td>
<td></td>
</tr>
<tr>
<td>HIST 594</td>
<td>Studies in Middle Eastern History - WR</td>
<td></td>
</tr>
<tr>
<td>SOC 460</td>
<td>Gender in the Middle East</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Music (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Music
Unit: Music (http://louisville.edu/music)

Students wishing to minor in music must meet the minimum admission requirements of the School of Music with a 2.75 GPA and 21 ACT and must obtain approval from the School of Music.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUH 204</td>
<td>Music in Western Civilization - AH</td>
<td>3</td>
</tr>
<tr>
<td>One music theory course as determined by placement exam</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>One semester of Piano Class</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MUS 97</td>
<td>Recital Attendance (two (2) semesters required, see note)</td>
<td>0</td>
</tr>
<tr>
<td>Applied Study</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Additional Hours of study selected from MUS, MUH, and/or MUTH courses</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 21

Students enrolled in the Minor in Music are strongly encouraged to enroll in a cross-listed course, MUH 205, MUH 214, or MUH 218, for their General Education: Cardinal Core credits in Arts and Humanities (AH) and/or U.S. or Global Diversity (D1/D2).

Students wishing to minor in Music must obtain the approval of the School of Music.

1 Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 for 0 credit concurrently with MUS 141. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.

2 Normally MUS 131.
Two semesters of Recital Attendance.

Students may count up to 4 hours of Major Ensemble - MUS 109 and 2 hours of Minor Ensemble - MUS 119 toward the Music Minor.

Students may count a maximum of 4 additional semesters of Applied Study toward the Music Minor.

Music and New Media (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Music & New Media
Unit: Music (http://louisville.edu/music)

Program Information
Students wishing to minor in Music & New Media must meet the minimum admission requirement of the School of Music with a 2.75 GPA and a 21 ACT and must obtain approval from the School of Music.

Students enrolled in the Music & New Media minor are strongly encouraged to enroll in a cross-listed course—MUH 205, MUH 214, or MUH 218—for their General Education credits in Arts and Humanities and/or U.S. or Global Diversity.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Choose one music theory course as determined by placement exam</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>OR MUH 315 Music &amp; Sound in Film</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Instrument or Voice Classes:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUS 130 Jazz Piano Class</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 131 Piano Class</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUS 147 Class Guitar I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUS 227 Voice Class</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUS 170 Introduction to Musical Acoustics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 171 Audio Engineering</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 270 Creative Audio Recording and Production Techniques</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 271 Sound Design</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 350 Analysis of Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUS 376 Sound Art</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Additional hours of study selected from MUS, MUH, and/or MUTH courses</td>
<td>0-1</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

1 Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 for 0 credit concurrently with MUS 141. Students who do not pass MUS 141, and students who enter the School of Music in January and do not place into MUS 142, must enroll in MUS 92 for the spring semester. Credits for MUS 92 do not count toward the degree.

2 OR Applied Study (dependent on ability and audition, or faculty placement).

3 Students may count up to 1 hour of Major Ensemble - MUS 109 and 1 hour of Minor Ensemble - MUS 119 toward the Music & New Media Minor. Students may also count a maximum of 1 additional hour of Applied Study toward the Music & New Media Minor.

4 0 hours of additional study if Theory is chosen; 1 hour of additional study if MUH 315 is chosen.

Pan-African Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Pan-African Studies
Unit: Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Pan-African Studies (http://louisville.edu/panafricanstudies)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAS 200</td>
<td>Introduction to Pan-African Studies - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>PAS 204</td>
<td>Introduction to African Studies</td>
<td>3</td>
</tr>
<tr>
<td>PAS 206</td>
<td>Introduction to Caribbean Studies - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>PAS electives at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PAS electives at any level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Philosophy (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Philosophy
Unit: College of Arts and Sciences (http://www.louisville.edu/a-s)
Department: Philosophy (http://louisville.edu/philosophy)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL electives at 300 level or above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 211</td>
<td>Critical Thinking - AH</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 311</td>
<td>Introduction to Logic</td>
<td></td>
</tr>
<tr>
<td>PHIL 412</td>
<td>Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>PHIL 512</td>
<td>Advanced Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>PHIL 222</td>
<td>Contemporary Ethical Problems - AH</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 225</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Medical Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 331</td>
<td>Philosophy of the Arts</td>
<td></td>
</tr>
</tbody>
</table>
At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

### Philosophy, Politics, and Economics (Minor)

**Minor in Philosophy, Politics, and Economics (PPE MINOR)**  
Unit: College of Arts and Sciences (p. 90); College of Business (p. 95)  
Departments: Philosophy (http://louisville.edu/philosophy), Political Science (http://louisville.edu/politicalscience), Economics (http://business.louisville.edu/economics)

Philosophy, Politics, and Economics (PPE) is a rigorous applied course of study particularly well-suited to students going into government, civil service, and/or professional schools (e.g., Law or Medicine).

Students majoring in Philosophy, Political Science, or Economics often can complete the PPE minor in only 18 additional hours, applying 6 hours in-common between the minor and the major.

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td><strong>6</strong></td>
<td></td>
</tr>
<tr>
<td>PPE 300</td>
<td>Introduction to Philosophy, Politics, and Economics - SB</td>
<td></td>
</tr>
<tr>
<td>PPE 499</td>
<td>Selected Readings in Philosophy, Politics, and Economics</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**  
Select two Philosophy courses from the following:  
6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 308</td>
<td>Social and Political Philosophy</td>
</tr>
<tr>
<td>PHIL 318</td>
<td>Philosophy and Feminism - AH, D1</td>
</tr>
<tr>
<td>PHIL 319</td>
<td>Philosophy of Race and Racism - AH, D1</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Ethics</td>
</tr>
<tr>
<td>PHIL 328</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Law</td>
</tr>
<tr>
<td>PHIL 516</td>
<td>African-American Philosophy</td>
</tr>
<tr>
<td>PHIL 535</td>
<td>Political Philosophy</td>
</tr>
<tr>
<td>PHIL 538</td>
<td>Critical Social Theory</td>
</tr>
<tr>
<td>PHIL 583</td>
<td>Health Care, Justice &amp; Community</td>
</tr>
<tr>
<td>PHIL 590</td>
<td>Fundamentals of Diversity</td>
</tr>
</tbody>
</table>

Select two Political Science courses from the following:  
6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 302</td>
<td>Urban Political Economy</td>
</tr>
<tr>
<td>POLS 326</td>
<td>Public Policy</td>
</tr>
<tr>
<td>POLS 334</td>
<td>The Politics of Global Economic Relations</td>
</tr>
<tr>
<td>POLS 335</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>POLS 347</td>
<td>Democratization</td>
</tr>
<tr>
<td>POLS 362</td>
<td>Comparative Political Economy</td>
</tr>
<tr>
<td>POLS 382</td>
<td>Modern Political Thought</td>
</tr>
<tr>
<td>POLS 384</td>
<td>Democracy and Its Critics - WR</td>
</tr>
<tr>
<td>POLS 388</td>
<td>Contemporary Political Theory</td>
</tr>
<tr>
<td>POLS 426</td>
<td>Environmental Policy</td>
</tr>
</tbody>
</table>

Select two Economics courses from the following:  
6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
</tr>
<tr>
<td>ECON 312</td>
<td>Urban Economics</td>
</tr>
<tr>
<td>ECON 331</td>
<td>Labor Economics</td>
</tr>
<tr>
<td>ECON 360</td>
<td>Environmental Economics</td>
</tr>
<tr>
<td>ECON 365</td>
<td>Law and Economics</td>
</tr>
<tr>
<td>ECON 375</td>
<td>Capitalism and Economic Freedom</td>
</tr>
<tr>
<td>ECON 341</td>
<td>Public Finance</td>
</tr>
<tr>
<td>ECON 342</td>
<td>State and Local Government Finance</td>
</tr>
<tr>
<td>ECON 350</td>
<td>The Economics of Entrepreneurship</td>
</tr>
<tr>
<td>ECON 421</td>
<td>History of Economic Thought</td>
</tr>
</tbody>
</table>

Minimum Total Hours  
24

The student must maintain a 2.00 average in the minor program for its successful completion.

### Physics (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Physics**  
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Physics and Astronomy (http://www.physics.louisville.edu)

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following sequences:</td>
<td>8-10</td>
<td></td>
</tr>
<tr>
<td>Sequence 1:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 221</td>
<td>Fundamentals of Physics I - S</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 223</td>
<td>Fundamentals of Physics Lab I - SL</td>
<td></td>
</tr>
<tr>
<td>PHYS 222</td>
<td>Fundamentals of Physics II - S</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 224</td>
<td>Fundamentals of Physics Laboratory II - SL</td>
<td></td>
</tr>
<tr>
<td>Sequence 2:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td></td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td></td>
</tr>
<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
| Electives electives numbered 302 through 599  
1 No more than 3 hours may be taken in Independent Study | 4-6 |

Minimum Total Hours  
18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

### Political Science (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Political Science**  
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Political Science (http://louisville.edu/politicalscience)
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics - SB</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 202</td>
<td>Introduction to Comparative Politics - D2, SB</td>
<td></td>
</tr>
<tr>
<td>POLS Electives</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

1. Students who substitute a statistics course from another department will need to take an additional Psychology elective to complete the required number of Psychology hours for the program.

Psychology (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Psychology

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Psychological and Brain Sciences (http://louisville.edu/psychology)

Admission to the minor in Psychology requires:

- Completion of PSYC 201 with a minimum grade of C;
- Completion of MATH 111 or higher level Math course;
- Completion of PSYC 301 (or approved substitute) with a minimum grade of C;
- Completion of 30 hours of degree-applicable credit with a minimum grade point average of 2.0; and
- A minimum grade point average of 2.0 in Psychology.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Introduction to Psychology - SB</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Statistics for Psychology 1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 302</td>
<td>Research Methods for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>Brain and Behavior</td>
<td></td>
</tr>
<tr>
<td>PSYC 306</td>
<td>Life Span Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 307</td>
<td>Cognitive Processes</td>
<td></td>
</tr>
<tr>
<td>PSYC 308</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Completion of the minor requires:

1. Completion of PSYC 302 with a minimum grade of C;
2. A minimum grade of C in all courses used to meet the requirements in the Psychology minor; and
3. A minimum grade point average of 2.0.

Public Health (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Public Health

Unit: School of Public Health (http://louisville.edu/sphis) & Information Sciences (http://louisville.edu/sphis)

The Public Health minor has been designed for all students who are interested in gaining a broader understanding about the field of Public Health. The coursework for the minor offers exposure to the concepts and applications of public health in a variety of disciplines.

Students from a wide variety of majors will find a Public Health minor attractive as it assists them in broadening their understanding of patterns of Public Health and its role in our society. Any major will gain an appreciation for the applications of Public Health. The minor can be an asset to students in determining their interest in graduate studies as well as long term career goals.

The minor in Public Health requires the completion of a minimum of 15 credit hours.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHUN 101</td>
<td>Introduction to Public Health - SB</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 300</td>
<td>Social and Behavioral Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 301</td>
<td>Health Equity - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 431</td>
<td>Contemporary Issues in Public Health 1</td>
<td>3</td>
</tr>
<tr>
<td>PHEH 301</td>
<td>Public Health and Our Environment</td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Students will be required to apply to the minor and maintain a minimum of a 2.0 GPA.

Race/Gender Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Race/Gender Studies

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Departments: Women’s and Gender Studies (http://www.louisville.edu/a-s/ws) and Pan-African Studies (http://www.louisville.edu/a-s/pas)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td>3</td>
</tr>
<tr>
<td>PAS 200</td>
<td>Introduction to Pan-African Studies - D1, SB</td>
<td>3</td>
</tr>
</tbody>
</table>
One course from Area C
Minimum Total Hours

<table>
<thead>
<tr>
<th>Area A: Introductory Comparative Courses on Religion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>HUM 218</td>
</tr>
<tr>
<td>HUM 219</td>
</tr>
<tr>
<td>HUM 336</td>
</tr>
<tr>
<td>PAS 351</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Area B: Advanced Courses on Religion Traditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>HUM 312</td>
</tr>
<tr>
<td>HUM 319</td>
</tr>
<tr>
<td>HUM 335</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area C: Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>HUM 336</td>
</tr>
<tr>
<td>HUM 338</td>
</tr>
<tr>
<td>HUM 339</td>
</tr>
<tr>
<td>HUM/WGST 340</td>
</tr>
<tr>
<td>HUM 344</td>
</tr>
<tr>
<td>HUM/PAS 349</td>
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<td>PAS 351</td>
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<tr>
<td>HUM 377/ PAS 317</td>
</tr>
<tr>
<td>HUM/HIST 387</td>
</tr>
<tr>
<td>HUM 511</td>
</tr>
<tr>
<td>HUM 512</td>
</tr>
<tr>
<td>HUM 513</td>
</tr>
<tr>
<td>HUM 514</td>
</tr>
<tr>
<td>HUM 516</td>
</tr>
</tbody>
</table>

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Religious Studies (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Religious Studies**

Unit: Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Comparative Humanities (http://louisville.edu/humanities)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 308</td>
<td>Studies of Religion - AH</td>
<td>3</td>
</tr>
<tr>
<td>HUM 510</td>
<td>Methods and Theories in the Study of Religion - CUE, WR</td>
<td>3</td>
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</tbody>
</table>

One course from Area A
Three courses from Area B
At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Russian Studies (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Russian Studies**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s) Department: Classical and Modern Languages (http://louisville.edu/modernlanguages)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 123</td>
<td>Intermediate Russian</td>
<td>4</td>
</tr>
<tr>
<td>RUSS 321</td>
<td>Russian Reading, Conversation, and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 322</td>
<td>Russian Reading, Conversation, and Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M L 313</td>
<td>Special Topics in Language, Literature, or Culture</td>
<td></td>
</tr>
<tr>
<td>M L 353</td>
<td>Russian Literature of the Nineteenth Century - WR</td>
<td></td>
</tr>
<tr>
<td>M L 354</td>
<td>Russian Literature of the Twentieth Century - WR</td>
<td></td>
</tr>
<tr>
<td>M L 561</td>
<td>Masterpieces of Russian Literature</td>
<td></td>
</tr>
<tr>
<td>HIST 363</td>
<td>Russian History I</td>
<td></td>
</tr>
<tr>
<td>HIST 364</td>
<td>Russian History II</td>
<td></td>
</tr>
<tr>
<td>HIST 385</td>
<td>Russian Cultural History - WR</td>
<td></td>
</tr>
<tr>
<td>HIST 547</td>
<td>Studies in Russian History - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 587</td>
<td>The Russian Revolutions - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HUM 381</td>
<td>Russian Culture</td>
<td></td>
</tr>
<tr>
<td>POLS 345</td>
<td>Russia and Eurasia - WR</td>
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</tr>
<tr>
<td>Minimum Total Hours</td>
<td>19</td>
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</tr>
</tbody>
</table>

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

**Social Change (Minor)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Social Change**

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHG 399</td>
<td>Lectures in Social Change</td>
<td>1</td>
</tr>
<tr>
<td>SCHG 401</td>
<td>Social Change Community Internship</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>PEAC 550 Service Learning in Peacebuilding</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH/SCHG 333</td>
<td>Globalizing Inequalities - WR</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

No more than 6 credit hours may count toward both the Social Change Minor and the Certificate in Peace, Justice, and Conflict Transformation (PEAC).

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled at the University of Louisville.
Socio-Cultural Anthropology (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Socio-Cultural Anthropology

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Anthropology (http://www.louisville.edu/a-s/anthro)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Biological Anthropology - S</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 207</td>
<td>Principles of Biological Anthropology - B</td>
<td></td>
</tr>
<tr>
<td>ANTH 204</td>
<td>Archaeology - D2, SB</td>
<td>3-4</td>
</tr>
<tr>
<td>or ANTH 206</td>
<td>Principles of Archaeology - B</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

ANTH 315 The Anthropology of Europe - SB
ANTH 317 Anthropology of China - D2, SB
ANTH 318 African-American Cultural Traditions
ANTH 319 Cultures of the Middle East
ANTH 320 Indians of North America - D1, SBH
ANTH 321 American Indian Women
ANTH 323 Cultures of Africa - D2, SB
ANTH 324 Iberian Anthropology
ANTH 325 The Anthropology of Latin America - D2, SB

Anthropology Electives 9

Minimum Total Hours 21-23

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Sociology (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Sociology

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Sociology (http://louisville.edu/sociology)

Admission to the minor in Sociology requires:

1. Completion of SOC 301 with a grade of C or better;
2. A minimum cumulative grade point average of 2.0; and
3. A minimum grade point average of 2.0 in any courses in Sociology.

Completion of the minor requires completion of SOC 303 and SOC 320 with a grade of C or better.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 201</td>
<td>Introduction to Sociology - SB</td>
<td>3</td>
</tr>
<tr>
<td>SOC 301</td>
<td>Introduction to Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 303</td>
<td>Introduction to Research Methods - WR</td>
<td>3</td>
</tr>
<tr>
<td>SOC 320</td>
<td>Social Theory - WR</td>
<td>3</td>
</tr>
<tr>
<td>SOC 323</td>
<td>Diversity and Inequality</td>
<td>3</td>
</tr>
<tr>
<td>Sociology electives at any level</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Sociology electives at 300 level</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 21

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Spanish (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Spanish

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Classical and Modern Languages (http://louisville.edu/modernlanguages)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 201</td>
<td>Intermediate Spanish I</td>
<td></td>
</tr>
<tr>
<td>&amp; SPAN 202</td>
<td>Intermediate Spanish II</td>
<td></td>
</tr>
<tr>
<td>SPAN 205</td>
<td>Intensive Intermediate Spanish for Heritage Learners</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following sequences: 6-9

Sequence One:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 305</td>
<td>Spanish Grammar in Context</td>
<td></td>
</tr>
<tr>
<td>SPAN 310</td>
<td>Readings and Writing in Spanish I</td>
<td></td>
</tr>
<tr>
<td>SPAN 321</td>
<td>Communication and Conversation in Spanish</td>
<td></td>
</tr>
</tbody>
</table>

Sequence Two:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 325</td>
<td>Bridging Linguistic Registers for Heritage Learners of Spanish</td>
<td></td>
</tr>
<tr>
<td>SPAN 335</td>
<td>Advanced Spanish for Heritage Learners</td>
<td></td>
</tr>
<tr>
<td>Spanish Elective(s) at 300 level or above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18-21

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.

Sport Administration (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Sport Administration

Unit: College of Education and Human Development (http://www.louisville.edu/ed)
Department: Health and Sport Sciences (http://www.louisville.edu/edu/hpes)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAD 281</td>
<td>Principles of Sport Administration</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 284</td>
<td>Issues and Ethics in Sport</td>
<td>3</td>
</tr>
</tbody>
</table>
### Theatre Arts (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Theatre Arts**
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Theatre Arts (http://louisville.edu/theatrearts)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 240</td>
<td>Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>or TA 241</td>
<td>Stagecraft II</td>
<td></td>
</tr>
<tr>
<td>TA 320</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>or TA 322</td>
<td>Acting The Black Experience - AH, D1</td>
<td></td>
</tr>
<tr>
<td>TA 326</td>
<td>Cultural Diversity in Performance - AH, D1</td>
<td>3</td>
</tr>
<tr>
<td>TA 350</td>
<td>Theatre Performance and Production (two semesters, 1/2 credit for each)</td>
<td>1</td>
</tr>
<tr>
<td>TA 371</td>
<td>Script Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from a single one of the following areas: 6

- Acting/Directing:
  - TA 321 | Acting II                                                            |       |
  - TA 330 | Directing                                                            |       |
  - TA 420 | Acting III                                                           |       |
  - TA 423 | Directing the Black Experience                                      |       |

A 2.25 grade point average is required in the Sport Administration minor.

A grade of "C" or better is required for SPAD 281 and SPAD 284 ("C-" will not count). Any grade of "D" will not be accepted in SPAD courses.

### Urban and Regional Analysis (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

**Minor in Urban and Regional Analysis**
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)  
Department: Geography and Geosciences (http://www.louisville.edu/a-s/geog)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 200</td>
<td>Human Geography in a Changing World - D2, SB</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 327</td>
<td>Economic Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 328</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four of the following: 12

- GEOG 331 | Population Geography                                                 |       |
- GEOG 390 | Special Topics 1                                                      |       |
- GEOG 528 | Planning, History and Issues                                         |       |
Wellness Coaching (Minor)

The minor in Wellness Coaching is offered by the College of Nursing, effective Fall 2018.

The Wellness Coaching minor through the Health and Sports Sciences department and the College of Education and Human Development has been suspended to further enrollment, effective Summer 2018.

Minor in Wellness Coaching

(Students enrolled in the minor prior to May 2018)
Unit: School of Nursing (http://louisville.edu/nursing)

To enroll in the Wellness Coaching minor, students must have at least a 2.50 cumulative university GPA.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Coursework</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>NURS 201</td>
<td>Introduction to Wellness Coaching</td>
<td></td>
</tr>
<tr>
<td>NURS 388</td>
<td>Global Health: Disparities and Social Determinants</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- D2, SB</td>
<td></td>
</tr>
<tr>
<td>SW 460</td>
<td>Motivation and Change</td>
<td></td>
</tr>
<tr>
<td>NURS 301</td>
<td>Internship in Wellness Coaching</td>
<td></td>
</tr>
<tr>
<td>Elective Coursework</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select two courses (6 hours) from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 305</td>
<td>Brain and Behavior</td>
<td></td>
</tr>
<tr>
<td>PSYC 306</td>
<td>Life Span Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 310</td>
<td>Psychology of Diversity</td>
<td></td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Exercise Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 325</td>
<td>Health Psychology</td>
<td></td>
</tr>
<tr>
<td>HSS 302</td>
<td>Nutrition in Healthy Living</td>
<td></td>
</tr>
<tr>
<td>HSS 394</td>
<td>Foundations of Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>HSS 293</td>
<td>Social and Psychological Dimensions of Physical</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Activity - SB</td>
<td></td>
</tr>
<tr>
<td>PEAC 350</td>
<td>Mediation &amp; Conflict Transformation</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18

2.50 GPA is required. No D grades will be accepted in minor courses.

1. Please note that these courses have prerequisite requirements which may not be listed in the courses above.

2. After Spring 2018, students may substitute an approved, equivalent internship offering (e.g., NURS 301).

Women's and Gender Studies (Minor)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Minor in Women's and Gender Studies

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)
Department: Women's and Gender Studies (http://www.louisville.edu/a-s/ws)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 201</td>
<td>Women In American Culture - D1, SB</td>
<td></td>
</tr>
<tr>
<td>Electives in Women's and Gender Studies 1,2</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>WGST 500</td>
<td>Senior Seminar in Women's and Gender Studies:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Sciences - CUE</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 18
Nine hours must be 300-level or above.
6 hours must be in Humanities; 6 hours must be in Social Sciences

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.
UNDERGRADUATE CERTIFICATES

Undergraduate Certificate Programs (non-degree)

Undergraduate certificate programs generally may be completed as stand-alone credentials. However, students must be enrolled in a degree program to be eligible for federal financial aid.

The certificate in Accounting is a post-baccalaureate certificate taught at the undergraduate level. It is intended for individuals who have already completed an undergraduate degree in another area but are interested in a career in accounting.

A

- Accounting (p. 442)

E

- Equine Business (p. 442)

G

- Geospatial Technologies, Applied (p. 443)

P

- Peace, Justice and Conflict Transformation (p. 444)
- Police Executive Leadership Development (p. 446)

Online Undergraduate Certificate

- Geospatial Technologies, Applied (http://louisville.edu/online/programs)

Online Post-Baccalaureate Certificate

- Accounting (http://louisville.edu/online/programs/certificate-programs/accounting)

Accounting (CAC)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Certificate in Accounting
Unit: College of Business (BU) (http://www.louisville.edu/business)

Department: Accountancy (http://business.louisville.edu/accountancy)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/certificate-programs/accounting).

For those with non-accounting undergraduate degrees who are interested in an accounting career.

The University of Louisville's Certificate in Accounting Program is specifically designed to:

- Develop the basic skills needed to pass the CPA exam;
- Teach advanced accounting skills to those with non-accounting undergraduate degrees; and
- Meet the time demands of working professionals in a 21-credit hour curriculum.

Admission Requirements

To enroll in the program, students must have completed ACCT 201 and ACCT 202 or their equivalents, have a bachelor's degree from an accredited college or university, and a minimum cumulative GPA of 2.8 (on a 4.0 scale).

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate Prerequisites</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td></td>
</tr>
<tr>
<td><strong>Certificate Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 301</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 302</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 310</td>
<td>Introduction to Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 315</td>
<td>Introduction to Taxation</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 320</td>
<td>Managerial Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 430</td>
<td>Auditing Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ACCT Elective or Co-Op</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 3 hours from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 353</td>
<td>Accounting for Not-For-Profit Organizations</td>
<td></td>
</tr>
<tr>
<td>ACCT 401</td>
<td>Advanced Accounting Problems</td>
<td></td>
</tr>
<tr>
<td>ACCT 411</td>
<td>Advanced Accounting Information Systems - CUE</td>
<td></td>
</tr>
<tr>
<td>ACCT 415</td>
<td>Advanced Taxation</td>
<td></td>
</tr>
<tr>
<td>ACCT 420</td>
<td>Advanced Managerial Cost Accounting</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

The required courses are typically offered each fall and spring semester, and may be offered in the summer sessions.

Any course prerequisites must be met prior to registration.

Equine Business (CEA)

Certificate in Equine Business (EQNC CEA)
Unit: College of Business (BU) (http://www.louisville.edu/business)
Department: Equine (http://business.louisville.edu/equine)
Program: Equine Industry Program

Program Information
The certificate in Equine Business is restricted to individuals who have earned either a Bachelor of Science or Bachelor of Arts degree and want academic training in the field of equine business. The program is designed as an intensive one-year program for full-time students, although part-time students will be accepted.

The curriculum consists of 24 hours of Equine Business courses for those individuals who possess a four-year Business degree or an MBA. The curriculum will include a minimum of 30 credit hours for those persons lacking in the certificate prerequisites.

Departmental Admission Requirements
Admission requirements include submission of an undergraduate application and official transcripts showing completion of a four-year degree, and an overall 2.8 GPA.

Priority application deadlines are June 1 for fall semester. Admission to the Equine Certificate Program is available only in the fall semesters. Priority application deadline is March 1 for summer semesters.

Program Requirements

Certificate Prerequisites

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 6

Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQIN 202</td>
<td>Horse Industry Overview</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 204</td>
<td>Equine Management</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 301</td>
<td>Organization and Administration of Equine Operations</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 302</td>
<td>Equine Economics</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 304</td>
<td>Equine Marketing</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 313</td>
<td>Equine Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 402</td>
<td>Enterprise Analysis - CUE</td>
<td>3</td>
</tr>
<tr>
<td>EQIN 403</td>
<td>Equine Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 24

Geospatial Technologies, Applied (Certificate)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Certificate in Applied Geospatial Technologies
Unit: College of Arts and Sciences (AS) (http://louisville.edu/artsandsciences)
Department: Geography and Geosciences (http://louisville.edu/geogeo)

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/certificate-programs).

This certificate program offers an additional layer of certification to undergraduate students seeking gainful employment in the growing field of geospatial technologies. The certificate will provide an introduction to the concepts and methods of map construction and visualization, including scale, location, projection, design, symbolism, and compilation. It will provide an introduction to geographic information systems and hands-on experience using ArcGIS software, management of relational databases, and the manipulation and graphical output of digital geospatial data. Upon completion of the program, students will be fully versed in the following key areas:

• Use and application of geographic information systems programs to solve complex geospatial problems
• Use, application, and interpretation of remotely sensed data and imagery
• Use of computer programming and scripting to create custom geospatial applications
• Database storage, retrieval, and statistical analysis
• Custom digital map presentation (paper, electronic, web)

The certificate requires the completion of 15 credit hours, of which 6 are required and 9 are elective hours. See the Certificate Requirements tab for details.

Students enrolled in stand-alone certificate programs are not eligible for federal financial aid. UofL students must be enrolled in a degree granting program in conjunction with the certificate program to receive federal aid.

Admission Requirements
Admission requires a current GPA of 3.0 or above in a given major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 350</td>
<td>Introduction to Mapping and Geospatial Technologies</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 558</td>
<td>Introduction to Geographic Information Systems</td>
<td>6</td>
</tr>
</tbody>
</table>

Elective Coursework

Choose 3 courses (9 hours) from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 355</td>
<td>Introduction to Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 356</td>
<td>Introduction to Spatial Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 385</td>
<td>Introduction to Programming for GIS and Spatial Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 522</td>
<td>GIS and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 531</td>
<td>GIS &amp; Urban Demographic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 571</td>
<td>GIS and Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 583</td>
<td>Spatial and Non-Spatial Database Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

Students must complete required courses for the certificate with a GPA of 2.75 or above.

Non-UofL students must meet the same requirements at an accredited institution.
Peace, Justice and Conflict Transformation (CPC)

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Certificate in Peace, Justice and Conflict Transformation (PSCRCPC)
Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEAC 325</td>
<td>Peace, Justice &amp; Conflict Transformation</td>
<td>3</td>
</tr>
<tr>
<td>PEAC 350</td>
<td>Mediation &amp; Conflict Transformation</td>
<td>3</td>
</tr>
<tr>
<td>PEAC 550</td>
<td>Service Learning in Peacebuilding</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ANTH 307</td>
<td>Darwin</td>
<td></td>
</tr>
<tr>
<td>ANTH 310/ PASC 368</td>
<td>Race, Culture, Identity</td>
<td></td>
</tr>
<tr>
<td>ANTH/PAS 318</td>
<td>African-American Cultural Traditions</td>
<td></td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Cultures of the Middle East</td>
<td></td>
</tr>
<tr>
<td>ANTH 320</td>
<td>Indians of North America - D1, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 321</td>
<td>American Indian Women</td>
<td></td>
</tr>
<tr>
<td>ANTH 323/ PASC 383</td>
<td>Cultures of Africa - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 325</td>
<td>The Anthropology of Latin America - D2, SB</td>
<td></td>
</tr>
<tr>
<td>ANTH 331</td>
<td>Anthropology of Religion</td>
<td></td>
</tr>
<tr>
<td>ANTH 332</td>
<td>Ecology, Politics and Culture</td>
<td></td>
</tr>
<tr>
<td>ANTH 333</td>
<td>Globalizing Inequalities - WR</td>
<td></td>
</tr>
<tr>
<td>ANTH 334</td>
<td>Conflict, Law, and Culture</td>
<td></td>
</tr>
<tr>
<td>ANTH 336</td>
<td>War and Society - WR</td>
<td></td>
</tr>
<tr>
<td>ANTH 337</td>
<td>Nationalism, Violence, and the State</td>
<td></td>
</tr>
<tr>
<td>ANTH 338</td>
<td>Anthropology of Refugees</td>
<td></td>
</tr>
<tr>
<td>ANTH 340</td>
<td>Human Rights</td>
<td></td>
</tr>
<tr>
<td>ANTH/AST 347</td>
<td>Global Capitalisms</td>
<td></td>
</tr>
<tr>
<td>ANTH 352</td>
<td>Food and Body Politic</td>
<td></td>
</tr>
<tr>
<td>ANTH 531</td>
<td>Anthropology of Water</td>
<td></td>
</tr>
<tr>
<td>ART 590</td>
<td>Special Problems in Studio Art</td>
<td></td>
</tr>
<tr>
<td>AST/CHST 341</td>
<td>Ethnicity and Religion in China</td>
<td></td>
</tr>
<tr>
<td>AST/ANTH 347</td>
<td>Global Capitalisms</td>
<td></td>
</tr>
<tr>
<td>CHST/AST 341</td>
<td>Ethnicity and Religion in China</td>
<td></td>
</tr>
<tr>
<td>CJ 200</td>
<td>Crime and Justice in the United States - SB</td>
<td></td>
</tr>
<tr>
<td>CJ 360</td>
<td>Juvenile Justice</td>
<td></td>
</tr>
<tr>
<td>CJ 403</td>
<td>Prisons and Jails in the United States</td>
<td></td>
</tr>
<tr>
<td>CJ 405</td>
<td>Crimes Against the Elderly</td>
<td></td>
</tr>
<tr>
<td>CJ 415</td>
<td>Substance Abuse, Crime and Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>CJ 425</td>
<td>Profiling Violent Crimes</td>
<td></td>
</tr>
<tr>
<td>CJ 430</td>
<td>Environmental Crime</td>
<td></td>
</tr>
<tr>
<td>CJ 440</td>
<td>Human Trafficking: Critical Thinking About Modern-Day Slavery</td>
<td></td>
</tr>
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<td>CJ 493</td>
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<td>Language, Protest and Identity - D1, SB</td>
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<td>Legal Lynchings: A Survey of Race, Law, and the American Justice System</td>
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<td>Religion and United States Politics</td>
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Minimum Total Hours 12

Special Topics courses may qualify as electives with the approval of both the individual department and the Peace Studies Program Director.

No more than 6 credit hours may count toward both the Social Change Minor and the Certificate in Peace, Justice, and Conflict Transformation.

At least three (3) semester hours of the requirements for a certificate must be successfully completed while enrolled in the University of Louisville.

**Police Executive Leadership Development (CPE)**

This program was approved for students entering the university in the Summer 2018–Spring 2019 catalog year. For more information about catalog year, go to Catalog Year Information (p. 77).

Certificate in Police Executive Leadership Development

Unit: College of Arts and Sciences (AS) (http://www.louisville.edu/a-s)

Department: Criminal Justice (http://www.louisville.edu/a-s/ja)

The Police Executive Leadership Development curriculum is designed to prepare student-officers for administrative careers in law enforcement. The courses offered have been approved by the University of Louisville and evaluated by the Southern Association of Colleges and Schools. Content of the individual courses as well as the overall content of the program is evaluated periodically and changes made if necessary to meet the needs of the law enforcement community.

Students who are accepted for the Southern Police Institute course are enrolled as full-time students in the University of Louisville. Each student is enrolled in five different courses, and those who successfully complete the courses receive 15 hours of college credit.

Students who have a baccalaureate degree are enrolled in the graduate certificate option (p. 1025) outlined in the Graduate Catalog.

**Program Requirements**

The curriculum of the Administrative Officers Course (AOC) of the Southern Police Institute is chosen from the following courses and may be taken only by students regularly enrolled in the Institute.

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<td>Organizational Behavior in Law Enforcement</td>
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Minimum Total Hours 15
The School of Interdisciplinary and Graduate Studies

The School of Interdisciplinary and Graduate Studies administers graduate degree programs in arts & sciences, business, dentistry, education, engineering, interdisciplinary studies, medical sciences, music, nursing, public health and social work. There are over 35 doctoral programs, more than 70 master’s-level programs, and over 20 graduate certificate programs, along with Rank I programs for certified teachers.

For more information on the School of Interdisciplinary and Graduate Studies, please call (502) 852-6495 or, for a complete listing of programs, visit our website: louisville.edu/graduate.

Professional Schools

The University of Louisville includes three schools that offer professional degrees: the School of Dentistry, the Louis D. Brandeis School of Law, and the School of Medicine.

For information on pre-professional curriculum and admissions requirements of the professional schools, students should contact the Arts & Sciences Advising Center.

The School of Dentistry

In addition to an undergraduate Bachelor of Science in Dental Hygiene, the School of Dentistry offers graduate and professional degree programs. They are the Doctor of Dental Medicine (DMD), Master of Science in Oral Biology (MS), and Master of Science in Dentistry (MSD) combined with an advanced specialty certificate in endodontics, orthodontics, pediatric dentistry, periodontics, and prosthodontics; and a bachelor of science in dental hygiene.

For the DMD degree, most applicants will have earned a BA or BS degree prior to enrollment. DMD applicants must have a minimum of 90 college credit hours with at least 32 hours of science course work, including courses in biology, general chemistry, organic chemistry and physics.

The master’s degree in oral biology program contains graduate level courses provided by departments within the School of Dentistry. This program is directed toward a general understanding of the biology of dental science. Students obtain detailed knowledge and necessary skills required to perform biologic research. For more information, see the UofL Graduate Catalog.

The School of Dentistry offers a program of study leading to the master of science degree in dentistry for postgraduate students/residents enrolled in the advanced specialty certificate programs in endodontics, orthodontics, pediatric dentistry, periodontics, and prosthodontics.

To apply, please contact the appropriate program director of each program at louisville.edu/dentistry or contact the Office of Postgraduate Education, School of Dentistry, (502) 852-0002.

The bachelor of science in dental hygiene program is a four year program with a lower and upper division. Students complete the lower division requirements on the Belknap Campus and then apply for competitive admission to the dental hygiene upper division which is housed in the School of Dentistry on the Health Sciences Center Campus.

More detailed information about admission requirements and application procedures may be obtained at the School of Dentistry website (louisville.edu/dentistry) or by contacting the Office of Student Affairs, School of Dentistry, (502) 852-5081.

The Louis D. Brandeis School of Law

The Brandeis School of Law offers a degree program leading to the Juris Doctor (JD) degree.

The program accommodates both full-time and part-time study. Full-time students complete the JD program in three years; part time students complete in four or five years.

The School of Law also offers eight dual degree programs. The joint MBA/JD degree is offered in conjunction with the University's College of Business; the MSSW/JD is offered in cooperation with the Kent School of Social Work. The joint JD/MA in humanities is offered in conjunction with the Division of Humanities in the School Interdisciplinary and Graduate Studies. The joint JD/master of divinity is offered in collaboration with the Louisville Presbyterian Theological Seminary. The joint JD/MA in political science is offered in conjunction with the Department of Political Science. The joint MUP/JD degree in urban planning and law is offered in conjunction with the University's Department of Urban and Public Affairs. The JD/MAs in bioethics and medical humanities is offered jointly with the School of Interdisciplinary and Graduate Studies, Department of Philosophy, and Division of Medical Humanities and Ethics. The joint JD/master of public administration is offered in conjunction with the Department of Urban and Public Affairs.

Successful candidates for admission must have a baccalaureate degree from an accredited institution prior to enrollment. Candidates must also take the Law School Admission Test (LSAT) prior to admission. More detailed information about admission requirements and application procedures can be obtained at louisville.edu/law/admissions or by calling the Law School Office of Admissions (502) 852-6391.

The law touches many phases of life and no uniform pre-law curriculum or major is prescribed for undergraduates. A liberal arts education is just as beneficial as an education directed toward later professional training.

Academic preparation should include courses that emphasize critical thinking, analysis, writing, and communication skills. These skills are necessary for the study of law. Generally, students interested in pursuing a legal career may follow the major of their choice. Those most commonly chosen are political science, business, English, history, and philosophy.

The College of Arts and Sciences has pre-law advisors to assist students in developing an integrated program of undergraduate studies tailored
to their particular needs and interests, preparing for the Law School Admissions Test, and choosing a law school suited to individual career objectives. The LSAT is normally taken in June following the junior year or in the fall of the senior year. In the course of fulfilling requirements in their major fields, pre-law students are urged, depending on your major, to include as many of the following as possible:

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<td>ENGL 309</td>
<td>Inquiries in Writing - WR&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>PHIL 211</td>
<td>Critical Thinking - AH</td>
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<tr>
<td>PHIL 311</td>
<td>Introduction to Logic&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>PHIL 412</td>
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<td>PHIL 323</td>
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<td>PHIL 350</td>
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<td><strong>Division of Natural Sciences, Arts and Sciences</strong></td>
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<td>BIOL 263</td>
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<td>MATH 109</td>
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<td><strong>Division of Social Sciences, Arts and Sciences</strong></td>
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<td>COMM 111</td>
<td>Introduction to Public Speaking - OC</td>
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<td>POLS 111</td>
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<td>POLS 201</td>
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<td>POLS 325</td>
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<td>POLS 332</td>
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<td>POLS 384</td>
<td>Democracy and Its Critics - WR</td>
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<td>POLS 399</td>
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<td>POLS 405</td>
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<td>SOC 334</td>
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<td>HIST 315</td>
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<td>HIST 316</td>
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<td>ACCT 201</td>
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<td>&amp; ACCT 202</td>
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<td>ECON 201</td>
<td>Principles of Microeconomics - SB</td>
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<td>&amp; ECON 202</td>
<td>Principles of Macroeconomics - SB&lt;sup&gt;2&lt;/sup&gt;</td>
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</table>

Course in Finance

<sup>1</sup> Most highly recommended.
<sup>2</sup> Each course is 3 hours; total listed is for both courses.

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### The School of Medicine

Applicants to the first-year class of the University of Louisville School of Medicine are considered individually and are selected based on merit without consideration of race, religion, sex, age, or national origin. The Admissions Committee evaluates an applicant's acceptability based on the premedical record, scores on the Medical College Admission Test (MCAT), recommendations from Premedical Advisory Committees, established technical standards for admissions and the applicant's personality and motivation as evaluated by interviews with members of the committee. Complete four-year college preparation is encouraged. Early decision program is encouraged for stellar applicants. Inquiries concerning admission should be addressed to:

**Office of Admissions**

Abell Administration Ctr., Rm. 413
323 East Chestnut St.
Louisville, Kentucky 40202
(502) 852-5193 or medadm@louisville.edu

Programs of medical education that award the degree of doctor of medicine in the United States and Canada are accredited by the Liaison Committee on Medical Education (LCME). This agency is sponsored by the Association of American Medical Colleges and the American Medical Association. The University of Louisville School of Medicine is a member of the Association of American Medical Colleges and is accredited by LCME.

**Application Process:** The University of Louisville School of Medicine participates in the American Medical College Application Service (AMCAS). Application materials are available by May at the AMCAS website, [www.aamc.org](http://www.aamc.org).

Upon receipt of the application from AMCAS, the University of Louisville School of Medicine Office of Admissions will email additional application materials to qualified applicants. Completed secondary applications are due in the Office of Admissions by December 31. A processing fee is charged and is not refundable, nor can it be credited toward tuition if the applicant is accepted. The fee may be waived, however, if the applicant has received a fee waiver from AMCAS. More information about the application process can be obtained at [louisville.edu/medschool/admissions](http://www.louisville.edu/medschool/admissions).

Residence status: Although applications from nonresidents are accepted, residents of Kentucky are given preference for admission. This policy is consistent with the mission of the University of Louisville as a state university. Residency must be established prior to making application. Applications from international students, including those with "Deferred Action for Childhood Arrivals" status (DACA), are accepted. Consistent with the mission of the University of Louisville as a state university, those with significant academic, personal or family ties to Kentucky are given preference. International applicants are considered under the following circumstances:

The applicant either has a pending application for permanent residency status in the United States or has been granted DACA status and is either married to a U.S. citizen who has an established residence in Kentucky and intends to remain in Kentucky, or b) has numerous members of his or her immediate family who have established residence in Kentucky indefinitely.

International students, including those with a pending application for permanent residency or with DACA status, are not eligible for most federal benefits. Therefore, if these international students are offered...
admission, they must submit documentation of sufficient funds to cover the cost of completing a medical degree (see estimates at louisville.edu/medicine/financialaid/cost-of-attendance).

The process of selecting medical school applicants involves a variety of considerations including academic, non-academic, and personal characteristics. Admission to medical school requires a strong foundation in the natural sciences (biology, chemistry, mathematics, and physics), highly developed communication skills, and a solid background in the social sciences and humanities. Specific majors are not recommended, but the undergraduate major area of study should be a careful and considered decision. All applicants to medical school must take the Medical College Admission Test. Information about the MCAT and how to apply to medical school are available via the AMCAS website at www.aamc.org (http://www.aamc.org). Students considering making application to the University of Louisville School of Medicine should consult the school’s website for information about their program, in addition to contacting the College of Arts & Sciences Advising Center, (502) 852-5502, to meet with a pre-health advisor.

Pre-Optometry
Students who are planning to apply to schools of optometry can fulfill the pre-optometry course requirements at the University of Louisville. The only optometry school in the state of Kentucky is Kentucky College of Optometry at University of Pikeville (www.upike.edu/KYCO (http://www.upike.edu/KYCO)). Since schools of optometry vary somewhat in their course requirements for admission, students interested in making application should select schools to which they have an interest in applying so that they can schedule courses to meet requirements for those schools. In general, students planning to make application to schools of optometry will need a minimum of three years of college coursework including a heavy concentration in the natural sciences (biology, chemistry, mathematics, and physics) as well as courses in social sciences and humanities. Many schools of optometry give preference to students who have completed a bachelor’s degree; all schools require applicants to take the Optometry Admissions Test. Students considering making application to optometry school should contact the College of Arts and Sciences Pre-Health Professions Advisors (louisville.edu/a-s/advising) for more information. Open advising sessions are scheduled during the academic year.

Pre-Veterinary Medicine
Students planning to apply to schools of veterinary medicine can fulfill pre-veterinary course requirements at the University of Louisville. Since schools may vary somewhat in their requirements, students interested in making application should select schools to which they have an interest in applying so they can schedule courses to meet requirements for those schools.

There is not a school of veterinary medicine in Kentucky. However, Kentucky does have contracts with the following schools in Alabama to reserve spaces for students who are legal residents of Kentucky: Auburn University College of Veterinary Medicine (34 spaces; www.vetmed.auburn.edu (http://www.vetmed.auburn.edu)) and Tuskegee University School of Veterinary Medicine (2 spaces; www.tuskegee.edu/academics/colleges/cvmnah/school_of_veterinary_medicine.aspx (http://www.tuskegee.edu/academics/colleges/cvmnah/school_of_veterinary_medicine.aspx)). Admission is competitive with selection made by the respective schools. Students admitted to either the Auburn or Tuskegee program will be charged in-state tuition, with Kentucky making a payment for each enrolling student for up to four years. This is outlined by the Council on Post-Secondary education and can be found here: cpe.ky.gov/acm/apply-cs.html (http://cpe.ky.gov/acm/apply-cs.html)

Students interested in making application to schools of veterinary medicine should contact the College of Arts and Sciences Pre-Health Professions Advisors (louisville.edu/a-s/advising) for more information. Open advising sessions are scheduled during the academic year.

Pre-Pharmacy
Students who are interested in making application to a school of pharmacy can complete prerequisite course requirements at the University of Louisville. Although requirements for admission to pharmacy schools are similar, they do vary. Students should select schools to which they are interested in applying and schedule courses to meet those requirements. The University of Kentucky College of Pharmacy and Sullivan University are the only schools in Kentucky to offer a pharmacy degree. The degree program involves a four-year professional curriculum leading to the Doctor of Pharmacy degree. Pre-Pharmacy students at the University of Louisville should consult the pharmacy school’s website for the undergraduate courses required for admission to this program. Admission to pharmacy schools is competitive.

Students will need two to three years of college coursework with a heavy concentration in the natural sciences in order to meet minimum prerequisites.

All applicants must take the Pharmacy College Admission Test. Students considering making application to pharmacy school should contact the College of Arts and Sciences Pre-Health Professions Advisors (louisville.edu/a-s/advising) for more information. Open advising sessions are scheduled during the academic year.
Undergraduate Course Index
The course index lists courses currently active at the University of Louisville. Not all courses are offered in any given academic term. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

500-level courses often are listed for both graduate and undergraduate students, but offerings may vary and students are responsible for ensuring that they enroll in a course that is applicable to their particular academic programs.

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Specific information can be found on the Office of the Bursar website (http://louisville.edu/bursar/tuitionfee).

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H
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- Health Promotion, Physical Education & Sport Studies (HPES) (p. 616)
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- History (HIST) (p. 617)
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Accounting (ACCT)

**ACCT 200. Elements of Accounting** 1.5 Units

**Prerequisite(s):** Admission to the Business Essentials minor program; MGMT 101; CIS 100 or CIS 250.

**Description:** This course is designed to introduce non-business students to the processes involved in creating financial statements and the use of those statements in operation a business or other entity.

**Note:** This course is not open to College of Business students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ACCT 201. Principles of Financial Accounting** 3 Units

**Term Typically Offered:** Fall, Spring, Summer

**Prerequisite(s):** An ACT math score of 25; or an SAT1 Math Sub-score of 580; or completion of MATH 111.

**Description:** The course focuses on the relevance and interpretation of accounting information for decision making. Preparation of financial statements is also covered.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ACCT 202. Principles of Managerial Accounting** 3 Units

**Term Typically Offered:** Fall, Spring, Summer

**Prerequisite(s):** ACCT 201.

**Description:** The course focuses on the information needed by management, where this information can be obtained, and how it can be used to carry out management’s responsibilities within an organization.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ACCT 205. Honors Principles of Accounting 6 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): An ACT math score of 25; or an SAT1 Math Sub-score of 580; or completion of MATH 111.
Description: Students explore financial statement analysis and managerial accounting techniques and use these tools to solve business problems.
Note: Open only to students accepted in the Honors Program.
Note: Replaces ACCT 201 - ACCT 202 sequence in the business core.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 301. Intermediate Accounting I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 201 or ACCT 205; ECON 201; ECON 202 (or concurrently); ENGL 102 or ENGL 105.
Description: The first of two courses dealing with financial reporting as reflected in Generally Accepted Accounting Principles. The course will discuss the theoretical underpinnings and the practical applications of income determination and balance sheet valuations. Intermediate Accounting I will focus on the accounting cycle and the nature of the financial statements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 302. Intermediate Accounting II 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Grade of B- or better in ACCT 301, or permission of the Director of the School of Accountancy.
Description: A continuation of the study of income determination and balance sheet valuations which was begun in ACCT 301. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 310. Introduction to Accounting Information Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 302 (or concurrently); ACCT 320 (or concurrently); CIS 250 or CIS 305.
Description: An introduction to Accounting Information Systems covering systems and control concepts, procedures and technologies as well as systems development processes and software applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 315. Introduction to Taxation 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 202 or ACCT 205; CIS 250 or CIS 305; ECON 201; ECON 202; BSTA 201 or BSTA 301; ENGL 102 or ENGL 105.
Description: An introduction to the laws and regulations relating to federal taxation. The course covers individual and general business tax problems from the point of view of the accountant. Tax research methodology is also introduced.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 320. Managerial Cost Accounting 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 202 or ACCT 205; CIS 250 or CIS 305; BSTA 201 or BSTA 301.
Description: Accumulating, reporting, and analyzing costs from the point of view of the management accountant. Emphasis is placed on the determination of costs relevant to a specific purpose, whether inventory valuation, control of current operation, or special decisions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 353. Accounting for Not-For-Profit Organizations 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 301 or faculty consent.
Description: The application of accounting to governmental units, charitable organizations, hospitals, and universities. Subjects include budgeting, account structure, utilization of accounting in decision making, financial statement presentation, and an introduction to cost-benefit analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 396. Zero-Credit Internship-Accounting 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 301; good academic standing; validation through the Ulmer Career Management Center; students must be Accounting majors.
Description: A new workplace experience in an approved Accounting position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools. This program is available to students who have received the maximum number of co-op credit hours for their major.
Note: Course is restricted and requires permission from the Ulmer Career Management Center.
Note: Application to the zero-credit internship program and completion of orientation processes should be accomplished prior to employment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 397. Co-op in Accounting I 1-3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of ACCT 301; university GPA 2.80; students must be Accounting majors.
Description: A new workplace experience in an approved Accounting position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools.
Note: Application to the co-op program and completion of orientation processes should be accomplished prior to employment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ACCT 398. Co-op in Accounting II 1-3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 397 for no more than 2 credit hours; university GPA 2.80; validation through COB Co-op office.
Description: A new or continued workplace experience in an approved Accounting position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 399. Co-op in Accounting III 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Permission of COB Co-op office.
Description: A new or continued workplace experience in an approved Accounting position which offers new learning and/or additional responsibilities that continue the student’s progression of learning and opportunity for practical application of classroom theory and tools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 401. Advanced Accounting Problems 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ACCT 302.
Description: A study of partnerships, business combinations, consolidated financial statements, and accounting for multinational enterprises.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 411. Advanced Accounting Information Systems - CUE 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 302, ACCT 310, ACCT 315, ACCT 320, FIN 301, CLAW 301, MGMT 301, MKT 301, and MGMT 401 (or concurrently); Senior standing.
Description: Coverage includes advanced data base concepts, the design and evaluation of a computerized information system, and operational and managerial auditing.
Note: FIN 301, CLAW 301, MGMT 301, MKT 301, and MGMT 401 prerequisites do not apply to students admitted prior to Summer 2011.
Course Attribute(s): CUE - This course fulfills the Cumulating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 415. Advanced Taxation 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACCT 302 (or concurrently); ACCT 315.
Description: A study in detail of the Federal taxation problems relating to partnerships, corporations, estates, and trusts. Text material is supplemented by tax return preparation and research case studies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 420. Advanced Managerial Cost Accounting 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCT 320.
Description: A continuation of ACCT 320, with emphasis on accounting decision models using uncertainty, the behavioral aspects of performance evaluation, and the management accountant’s response to the changing manufacturing environment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 430. Auditing Theory and Practice 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCT 302 and ACCT 310.
Description: A survey of the role of the certified public accountant as independent auditor of financial statements. Topics include professional ethics, generally accepted auditing standards, legal liability, statistical sampling, audits of EDP systems, internal control, audit work programs, and the auditor’s opinion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 490. Special Topics in Accounting 1-4 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): Senior standing.
Description: A variety of contemporary topics in accounting and/or taxation will be studied. Course content may vary each semester but will not duplicate other course offerings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 499. Independent Study in Accounting 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Written proposal must be sponsored by at least one faculty member and approved by the Director of the School of Accountancy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 500. Fundamentals of Accounting 3 Units
Description: Fundamental principles of accounting needed by the manager. Topics include the assumptions of accounting, recording and reporting transactions; interpretation of data for decision-making purposes.
Note: Fulfills a Foundation Core requirement only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 526. Finance and Accounting Applications in Logistics and Distribution 3 Units
Prerequisite(s): MKT 525.
Description: Fundamental principles of accounting and finance as applied to logistics and distribution as needed by managers.
Note: This course does not fulfill credit for MBA.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Aerospace Studies (AIRS)

AIRS 101. Foundations of the U.S. Air Force I 1-2 Units
Term Typically Offered: Fall Only
Corequisite(s): Concurrent enrollment in AIRS 151.
Description: Organizational structure of the Air Force, and the customs, courtesies, and professional appearance. Air Force core values and the concepts of professionalism and officership as they apply to the military along with the opportunities and benefits available to an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 102. Foundations of U.S. Air Force II 1-2 Units
Term Typically Offered: Spring Only
Corequisite(s): Concurrent enrollment in AIRS 152.
Description: Organizational structure of the Air Force, and the customs, courtesies and professional appearance. Air Force core values and the concepts of professionalism and officership as they apply to the military along with the opportunities and benefits available to an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 110. Air Force ROTC Independent Study 1-6 Units
Description: Independent study of the organizational structure of the Air Force. Customs, courtesies, benefits available and professional appearance. Also, Air Force core values and the concepts of professionalism and officership. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 151. Air Force ROTC Leadership Laboratory 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall Only
Description: N
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 152. Air Force ROTC Leadership Laboratory 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Description: Training in Air Force customs and courtesies, drill and ceremonies, instructing other cadets and the environment of an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 201. Evolution of U.S. Air Power I 1-2 Units
Term Typically Offered: Fall Only
Corequisite(s): Concurrent enrollment in AIRS 251.
Description: Examination of general aspects of air and space power through a historical perspective, from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War, including discussion of the recent conflict in Iraq. This course provides students with a knowledge-level understanding for the general element and employment of air and space power. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 202. Evolution of U.S. Air Power II 1-2 Units
Term Typically Offered: Spring Only
Corequisite(s): AIRS 252.
Description: Examination of general aspects of air and space power through a historical perspective, from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War, including discussion of the recent conflict in Iraq. This course provides students with a knowledge-level understanding for the general element and employment of air and space power. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 210. Air Force ROTC Independent Study 1-6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): AIRS 102 and AIRS 152, or permission of departmental chair.
Description: An independent study of general aspects of air and space power through historical perspective. Provides students with a knowledge-level understanding for the general element and employment of air and space power. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 251. Air Force ROTC Leadership Laboratory 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall Only
Description: Training in Air Force customs and courtesies, drill and ceremonies, instructing other cadets and the environment of an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 252. Air Force ROTC Leadership Laboratory 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Description: Training in Air Force customs and courtesies, drill and ceremonies, instructing other cadets and the environment of an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 253. Air Force ROTC Leadership Laboratory 0 Units
Grading Basis: Pass/Fail
Description: Training in Air Force customs and courtesies, drill and ceremonies, instructing other cadets and the environment of an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AIRS 254. Air Force ROTC Leadership Laboratory 0 Units
Grading Basis: Pass/Fail
Description: Training in Air Force customs and courtesies, drill and ceremonies, instructing other cadets and the environment of an Air Force officer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
| Course Code | Course Title                                           | Units | Term Typically Offered                        | Prerequisite(s)                                                                 | Description                                                                                                                                     | Grading Basis | Corequisite(s)                                                                 |
|------------|--------------------------------------------------------|-------|-----------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------|}
| AIRS 310   | Air Force ROTC Independent Study                       | 6     | Fall, Spring, Summer                          | AIRS 202 and AIRS 252, or permission of departmental chair.                      | An independent study of leadership and management fundamentals, professional knowledge, leadership ethics, problem solving, and communication skills. For class offerings for a specific term, refer to the Schedule of Classes.                  | Pass/Fail      |                                                                                 |}
| AIRS 311   | Air Force Leadership Studies I                         | 3     | Fall Only                                     | Consent of department chair.                                                     | A study of leadership and management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, problem solving tools and techniques, and the communicative skills required to manage in an Air Force milieu. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      | Concurrent enrollment in AIRS 351.                                              |}
| AIRS 312   | Air Force Leadership Studies II                        | 3     | Spring Only                                   | Consent of department chair.                                                     | A study of leadership and management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, problem solving tools and techniques, and the communicative skills required to manage in an Air Force milieu. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      | Concurrent registration in AIRS 352.                                             |}
| AIRS 351   | Air Force ROTC Leadership Laboratory                   | 0     | Fall Only                                     |                                                                                  | Instruct 100, 200 level cadets in Air Force customs and courtesies, drill and ceremonies, and aid them in developing advanced leadership skills. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 352   | Air Force ROTC Leadership Laboratory                   | 0     | Spring Only                                   |                                                                                  | Instruct 100, 200 level cadets in Air Force customs and courtesies, drill and ceremonies, and aid them in developing advanced leadership skills. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 410   | Air Force ROTC Independent Study                       | 6     | Fall, Spring, Summer                          | AIRS 311, and AIRS 312, or permission of departmental chair.                     | An independent study of the concept of the Armed Forces as an integral element of society with emphasis on the broad range of American civil-military relations and the environmental context in which US defense policy is formulated and implemented. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 411   | National Security Affairs I                            | 3     | Fall Only                                     | Consent of department chair.                                                     | The concept of the Armed Forces as an integral element of society with emphasis on the broad range of American civil-military relations and the environmental context in which United States defense policy is formulated and implemented. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 451   | Air Force ROTC Leadership Laboratory                   | 0     | Fall Only                                     |                                                                                  | Instruct 100, 200 level cadets in Air Force customs and courtesies, drill and ceremonies, developing advanced leadership skills. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 452   | Air Force ROTC Leadership Laboratory                   | 0     | Spring Only                                   |                                                                                  | Instruct 100, 200 level cadets in Air Force customs and courtesies, drill and ceremonies, developing advanced leadership skills. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 453   | Air Force ROTC Leadership Laboratory                   | 0     | Fall Only                                     |                                                                                  | Instruct 100, 200 level cadets in Air Force customs and courtesies, drill and ceremonies, developing advanced leadership skills. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |}
| AIRS 454   | Air Force ROTC Leadership Laboratory                   | 0     | Spring Only                                   |                                                                                  | Instruct 100, 200 level cadets in Air Force customs and courtesies, drill and ceremonies, developing advanced leadership skills. For class offerings for a specific term, refer to the Schedule of Classes. | Pass/Fail      |                                                                                  |
American Sign Language (ASL)

ASL 101. American Sign Language I  
Term Typically Offered: Fall, Spring, Summer  
Description: A functional-notional approach to learning beginning American Sign Language (ASL). Development of basic knowledge of and understanding of conversational ASL and cultural features of the language and community.  
Note: Clinical hours required.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 102. American Sign Language II  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ASL 101 with a minimum grade of C, or permission of instructor.  
Description: Continued development of basic knowledge and understanding of conversational ASL and cultural features of the language and community.  
Note: Clinical hours required.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 201. American Sign Language III  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ASL 102 with a minimum grade of C, or permission of instructor.  
Description: Development of intermediate expressive and receptive ASL skills and cultural features of the language and community.  
Note: Clinical hours required.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 202. American Sign Language IV  
Term Typically Offered: Spring, Summer  
Prerequisite(s): ASL 201 with a minimum grade of C, or permission of instructor.  
Description: Continued development of intermediate expressive and receptive ASL skills and cultural features of the language and community.  
Note: Clinical hours required.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 205. Accelerated American Sign Language III & IV  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ASL 102 with a minimum grade of B, or permission of instructor.  
Description: Allows students to complete American Sign Language III and American Sign Language IV in one semester. The course focuses on advanced expressive and receptive skills while building an understanding of the cultural context.  
Note: Recommended for intended majors.  
Note: Clinical hours required.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 213. Special Topics in American Sign Language  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Permission of instructor.  
Description: Presentation of course material of a timely, specialized, or topical nature.  
Note: Specific course orientation will appear beside title.  
Note: May be retaken to a maximum of six hours if subject matter is different each time.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 301. American Sign Language V  
Term Typically Offered: Fall Only  
Prerequisite(s): ASL 202 with a minimum grade of C, or permission of instructor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 302. American Sign Language VI  
Term Typically Offered: Spring Only  
Prerequisite(s): ASL 301 with a minimum grade of C, or permission of instructor.  
Description: Continued development of advanced expressive and receptive ASL skills and cultural features of the language and community.  
Note: Clinical hours required.  
Note: Final course in the ASL sequence.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 305. Accelerated American Sign Language V & VI  
Term Typically Offered: Spring Only  
Prerequisite(s): ASL 102 with a minimum grade of C, or permission of instructor.  
Description: Allows students to complete American Sign Language III and American Sign Language IV in one semester. The course focuses on advanced expressive and receptive skills while building an understanding of the cultural context.  
Note: Recommended for intended majors.  
Note: Clinical hours required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASL 400. American Sign Language VII  
Term Typically Offered: Fall Only  
Prerequisite(s): ASL 302 with a grade of C or better.  
Description: ASL 400 builds on the grammar and vocabulary students have learned in the beginning language sequence (ASL 101 to ASL 302). The chief aim is communicative native-like competencies, to increase understanding of advanced ASL discourse, and the improvement of conversational skills. Videos and other media from the American Deaf community will be discussed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ASL 405. Advanced ASL  1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): ASL 302 or ASL 305; ASL 400; admission to ASLIS major and good standing in the program.
Description: ASL 405 builds on the grammar and vocabulary students have learned in the beginning language sequence (ASL 101 to ASL 302 / ASL 305) and ASL 400. The chief aim is communicative native-like competencies, better understanding of advanced ASL discourse, and the improvement of conversational skills. Videos and other media from the American Deaf community will be discussed.
Note: Credit may not be earned in both ASNB 502 and ASNB 602.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### Anatomical Sciences and Neurobiology (ASNB)

#### ASNB 502. Fundamentals of Neuroscience  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 355 or permission of instructor.
Description: Basics of cellular and systems neuroscience are taught through a combination of lectures and laboratories. Topics include: electrical potentials in the nervous system, synaptic transmission, somatosensory pathways, special senses (vision, hearing, balance, taste, and smell), eye movements, motor systems and higher functions (language, sleep and wakefulness, cognition, emotion and memory).
Note: Credit may not be earned in both ASNB 502 and ASNB 602.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

#### ASNB 510. Gross Anatomy for Students of Physical Therapy  3 Units
Term Typically Offered: Summer Only
Description: Lectures and laboratory dissection of regions required for students of Physical Therapy.
Note: Limited to students of the Bellarmine University Physical Therapy program.
Note: Limited to 40 students maximum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

#### ASNB 514. Molecular Neuroscience  3 Units
Term Typically Offered: Fall Odd Years
Prerequisite(s): ASNB 502.
Description: The purpose of this course in Molecular Neuroscience is to explore the molecular and cellular basis of nervous system development, function and diseases. The course will provide intellectual tools and skills to evaluate novel hypotheses and mechanisms in neuroscience. Special emphasis of the course will be to provide basic technical knowledge and tools to apply molecular biology concepts in the ongoing research in any area of neuroscience.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

#### ASNB 517. Seminar on Developmental Neurobiology  3 Units
Term Typically Offered: Spring Even Years
Prerequisite(s): ASNB 502, and BIOL 329 or ASNB 514.
Description: The purpose of this course is to provide the student with a basic understanding of the processes and mechanisms of neural development. Specific topics include emergence of the neural primordium, patterning and growth of the nervous system, neuronal determination, axonal navigation and targeting, neuron survival and death, synapse formation, synaptic refinement and the formation of specific connections.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

#### ASNB 556. Synaptic Organization of the Central Nervous System  3 Units
Term Typically Offered: Spring Odd Years
Prerequisite(s): ASNB 502.
Description: The purpose of this course is to provide the student with a basic understanding of synaptic circuits and the techniques used to study them. Each week we will focus on a different brain region or circuit. During the first meeting of each week the instructor will provide an overview of the topic which includes both lecture and reading material. During the second meeting of each week, students will meet with a graduate student teaching assistant to review and discuss the course material presented that week.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### Anthropology (ANTH)

#### ANTH 201. Introduction to Cultural Anthropology - D2, SB  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: This course introduces cultural anthropology and surveys its fundamental questions, concepts, methods, and data. The overall question it seeks to answer: what does it mean to be human? To answer this question and many related ones involves learning concepts such as culture, cultural relativism, universal-ism, evolution, race, gender, and class. The course explores the way cultural anthropologists develop their research questions and the methods and data they use to answer them.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

#### ANTH 202. Biological Anthropology - S  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: This course provides a general introduction to biological anthropology through an examination of humans in the animal kingdom, the human evolutionary past, anthropological genetics, a comparative examination of primate and hominin fossils, and the dynamics of human variation and human adaptation.

Note: Credit is not allowed for both ANTH 202 and ANTH 207.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 203. Archaeology of Human History - D2, SBH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Archaeology of Human History is a global survey of the first 2 million years of human existence. We will trace the evolution of human culture through time, focusing on well-known archaeological sites in Africa, Asia, Europe and the Americas, examine long-term change in human societies focusing on the major developments in human physical and cultural evolution, such as tool-making, hunting, art, music, religion, the domestication of plants and animals, the rise of cities and states. Causes for these changes will be considered in detail.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 204. Archaeology - D2, SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Archaeology is about discovery and learning how and why people of the past made things, what people ate, where they settled, how they used the land and sea, how they organized their societies and economies, and the nature of their religious practices and ideologies. This course emphasizes the history of archaeological endeavors, the theories that guide archaeological research and the methods and tools used by archaeologists to study the lifeways of the past.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 205. Music in World Cultures - D2, SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: General introduction to the world of music covering basic elements of music along with the socio-cultural aspects of music and music-making from an ethnomusicological perspective.
Note: Cross-listed with MUH 205.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 206. Principles of Archaeology - B 4 Units
Description: This course introduces students to the science of archaeology. We will cover the practical ways in which various sciences and technologies that contribute to our knowledge of how the world works also make possible our interpretation of the archaeological record. In addition to lecture, students will have opportunity to actively explore and better understand archaeological methods in a laboratory setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 207. Principles of Biological Anthropology - B 4 Units
Description: This course provides a general introduction to biological anthropology through an examination of the place of humans in the animal kingdom, the human evolutionary past, a comparative examination of primate and hominid fossils, and the dynamics of human variation and human adaptation. In addition to lecture, students will have opportunity to actively explore and better understand the methods of biological anthropology in a laboratory setting.
Note: Credit not allowed for both ANTH 202 and ANTH 207.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 301. Archaeology of Sacred Sites 3 Units
Term Typically Offered: Occasionally Offered
Description: This course examines religion through material remains that have been excavated, conserved and interpreted by archaeologists. The archaeological record makes it clear that religious experiences were a vital component of all pre-modern cultures, and that the religious impulse has been a driving force in the creation of artifacts and monuments from the Paleolithic era to the present. Although religion is traditionally studied from the perspective of theology, creeds, and iconography, the mute material record of ancient religious practices offers many insights into forms of ritual, vision and belief that appear in widely scattered parts of the world, and widely separated in time. The sacred sites studied in this course range from Stonehenge and Easter Island to Giza and Machu Picchu.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 302. Underwater Archaeology 3 Units
Term Typically Offered: Occasionally Offered
Description: An introduction to one of the newest and most important fields within the discipline of archaeology: underwater archaeology. This course will examine the detection, exploration, recording, excavation, and preservation of underwater sites. Topics range from the history and development of diving techniques for working underwater, to a consideration of the laws and regulations that govern underwater exploration. Although the primary focus is on shipwrecks, the course also considers submerged cities, harbors, and other habitation sites. Emphasis will be placed on recent discoveries and advances in the field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 303. Human Origins 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ANTH 202 or consent of instructor.
Description: Study of the forces of evolution that shape both genetic and phenotypic human variability and exploration of the fossil record related to the evolution of modern humans.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 304. Prehistoric Archaeology Europe - SBH 3 Units
Term Typically Offered: Spring, Fall Odd Years
Description: Prehistory of Europe from the earliest occupation around a million years ago to the Iron Age; includes peopling of Europe, Neanderthals’ ecology, Upper Paleolithic creative explosion, spread of farming, trade, and rise of complex societies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 305. Genes, Peoples and Evolution 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ANTH 202 or 3 hours Biology.
Description: Examines how geography and history affect genetic diversity; analyzes how genetics reconstruct individual ancestry and population history.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Typically Offered</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 306</td>
<td>Human Biological Variation</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td>Course explores biological diversity in terms of evolutionary origin and adaptive significance. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 307</td>
<td>Darwin</td>
<td>Fall Only</td>
<td>3</td>
<td></td>
<td></td>
<td>Darwin's work in its historical and intellectual milieu; his commitment to empirical support for his theory of evolution. The social controversy associated with misunderstanding evolution today. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 308</td>
<td>Primates</td>
<td>Spring Only</td>
<td>3</td>
<td></td>
<td></td>
<td>Survey of primate behavior, ecology, and culture. Focus on violence and aggression, kin selection, altruism, evolution and sex, the developmental cycle, language, cognition, and male and female social behavior. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ANTH 309</td>
<td>Sex, Gender and Culture</td>
<td>Fall Even Years</td>
<td>3</td>
<td>ANTH 201, or SOC 201, or SOC 202, or any WGST course.</td>
<td></td>
<td>A cross-cultural examination of the interrelationship between biological sex, socially-constructed gender norms, sexuality, and culture. Topics include feminist/gender theory, masculinity, femininity, hermaphroditism, hetero-normative sexuality, and homosexuality with emphasis on non-U.S. cultures. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 310</td>
<td>Race, Culture, Identity</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
<td></td>
<td>The course focuses on the concept of race-a key element in the social science and historical literature as well as a primary marker in the organization of American life. The course considers race as a historically constructed and defined concept and considers the way it is constructed in various societies. The course examines the use of racial categories over the last 200 years and their links to gender, political and social trends, ethnicity and nationalism. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 311</td>
<td>Emergence of Human Culture - SBH</td>
<td>Fall Only</td>
<td>3</td>
<td></td>
<td></td>
<td>Origins and development of human culture from Paleolithic to 10,000 years ago; early hominid evolution, peopling of the world, Neanderthal behavior and replacement by modern humans; emergence of modern culture. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 312</td>
<td>Rise of Civilization</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
<td></td>
<td>Focuses on sedentarization and rise of agriculture; resource intensification and domestication; emergence of inequality, complex societies, and states. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 313</td>
<td>Studies in Ethnomusicology - D2, SB</td>
<td>Fall, Spring, Summer</td>
<td>3</td>
<td></td>
<td></td>
<td>General introduction to the world of music and field of Ethnomusicology. Students will learn basic elements of music and various socio-cultural aspects of music and music-making from ethnomusicological perspective. Note: Cross-listed with MUH 313.</td>
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<tr>
<td>ANTH 314</td>
<td>Introduction to Japanese Society - D2, SB</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
<td></td>
<td>This course introduces students to contemporary Japanese society through the lens of cultural anthropology. It examines a broad range of topics including demography, kinship and family, education, gender, minority and ethnicity, popular culture, and environmental issues. Note: Cross-listed with AST 314.</td>
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<tr>
<td>ANTH 315</td>
<td>The Anthropology of Europe - SB</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
<td></td>
<td>Study of the civilizations of Mexico and Central America - the Aztec, Maya, their neighbors, their predecessors, and their socio-cultural legacy. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>ANTH 316</td>
<td>Ancient Civilizations of Mesoamerica</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
<td></td>
<td>Study of the civilizations of Mexico and Central America - the Aztec, Maya, their neighbors, their predecessors, and their socio-cultural legacy. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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</table>
ANTH 317. Anthropology of China - D2, SB
Term Typically Offered: Fall, Spring
Description: It is widely acknowledged that China is a rising power in the global political economy. However, with the coexistence of tradition and modernity, the nature of Chinese culture and society remains heavily debated. This course introduces students to a wide range of topics and issues that constitute the socio-cultural fabric of contemporary mainland Chinese society. These topics include, but are not limited to, family, gender, ethnicity, religion, education, politics, and economics. Our investigation will focus on two broad themes: 1) the unity and diversity of Chinese society, and 2) the continuity and change that took place from late traditional China to the present. The goal of this course includes learning various aspects of Chinese culture and society, examining diverse anthropological approaches to the study of China, and exploring the political dimensions of representation.
Note: Cross-listed with AST 317.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 318. African-American Cultural Traditions
Term Typically Offered: Fall Only
Description: This course is an intensive examination of the life and culture of people of African descent in the Americas. Drawing from historical and socio-cultural literature, students are introduced to the African origins of the Diaspora in North and South America, to their socio-cultural development in the American context including cultural traditions, urbanization and kinship, and to their contributions to the development of the history and culture of American countries.
Note: Cross-listed with PAS 318.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 319. Cultures of the Middle East
Term Typically Offered: Fall Only
Description: The term "Middle East" refers to a geopolitical and cultural area. This course examines the anthropological literature on the region to identify, probe, and analyze socio-cultural patterns and processes across a broad region of considerable complexity. The course explores what shared patterns of cultural and social life make this a region and promote cultural integration and what are the factors that produce difference and complexity. Focus is on local level social and cultural processes contextualized within a regional and global framework.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 320. Indians of North America - D1, SBH
Term Typically Offered: Fall Only
Description: Survey of North American indigenous people before and after European contact with a focus on the impact of colonialism on Indian nations and their relationships with the American state.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 321. American Indian Women
Term Typically Offered: Spring Only
Description: This course analyses issues effecting contemporary American Indian women living and working in rural and urban communities throughout North America. In reading about lives, achievements, and contributions of American Indian women, often in their own words, we will see how they traveled the road to where they find themselves today and how their origins and traditions helped to shape their lives. The course will look at issues dealing with the roles of American Indian women within their societies, in education, in tribal politics, health issues, and stereotypes that persist in non-Indian societies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 322. Archaeology of North America - SBH
Term Typically Offered: Spring Only
Description: North America was home to many dynamic prehistoric and historic cultural traditions expressed in the diversity of social, religious, and economic life ways. We will use archaeological and ethnohistorical data in a cross-cultural comparative examination of Native North American cultures from the initial peopling to European contact. More generally, we will explore ways in which the Native North American past has served as a laboratory for the development of anthropological theories of human behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 323. Cultures of Africa - D2, SB
Term Typically Offered: Spring Only
Description: This course provides an introduction to the ethnography of postcolonial cultures in sub-Saharan Africa. We will examine cultural, historical, political, and socio-economic factors that shape life in several countries, specifically exploring the complexity and diversity of everyday life in urban areas. The course will be centered upon a series of ethnographic readings, films, and case studies meant to introduce students to the diversity of social worlds and experiences across this broad region. We will focus on a series of core concepts and topics across the semester, including post-coloniality, development and economics, globalization, migration and mobility, activism and politics, informality, and urban space.
Note: Cross-listed with PAS 383.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 324. Iberian Anthropology
Term Typically Offered: Occasionally Offered
Description: Iberia's ambiguous status regarding Europe and North Africa, of cultures, social, political, economic and ecological variation and continuities within Iberia and between the peninsula and other areas.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 325. The Anthropology of Latin America - D2, SB 3 Units  
Term Typically Offered: Occasionally Offered  
Description: An ethnographic examination of Latin American cultural diversity and social, political, and economic systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 326. African Archaeology 3 Units  
Description: African hosts the oldest record of human biological and cultural evolution. This course provides a general survey of the African Archaeological record, covering the time span from 3.3 million years ago to the beginning of complex societies. Archaeological relics and hominin fossil remains from different parts of the continent will be considered in order to demonstrate how early human life-ways have changed over time in terms of cultural innovations, subsistence behavior and social organizations. An overview of major ancient African civilizations and their main achievements will be discussed in the concluding segment. 
Note: There is no prerequisite to enroll in this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 327. Fundamentals of Skeletal Forensics 3 Units  
Term Typically Offered: Fall Only  
Description: The use of evidence to determine specific information about a deceased individual. Emphasis is on determination of age, sex, race, stature, and pathologies to determine identification. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 328. Environmental Archaeology 3 Units  
Prerequisite(s): Sophomore standing or above.  
Description: This course addresses climate history and long-term patterns of change in human adaptation throughout the past 130,000 years, a time span that saw important milestones in human evolution. Common sources of data for reconstructing ancient climate and environments (such as botanical, faunal, geological and isotopic approaches) will be considered to demonstrate how archaeologists study past human relationship with the natural environment. Other topics to be discussed include causes and consequences of past glaciations, past human diet, and conditions that fostered the inception of food production. The course concludes with an overview of environmental disasters, global warming and the impacts of colonialism and industrialization on the environment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 329. Zooarchaeology 3 Units  
Term Typically Offered: Occasionally Offered  
Description: Identification of animal remains at archaeological sites, examines approaches using bone data to construct and investigate archaeological questions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 330. Urban and Historic Archaeology 3 Units  
Term Typically Offered: Occasionally Offered  
Description: An examination of the history of North America through archaeological remains. Includes historic artifacts, architecture, and settlement patterns as related to cultural history. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 331. Anthropology of Religion 3 Units  
Term Typically Offered: Occasionally Offered  
Description: This course in the anthropology of religion explores religious systems from a comparative and holistic perspective. We will look at how anthropologists approach the topic conceptually using case studies and examples from around the world. The course examines the psychology of religion, myths and symbols, rituals and art, religious language and beliefs, ethics, social behavior, and the effects of globalization and culture change on religious systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 332. Ecology, Politics and Culture 3 Units  
Term Typically Offered: Fall Only  
Description: Examines the interaction between natural environments, sociocultural systems and power relations. Uses case studies from around the globe to illustrate this interaction. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 333. Globalizing Inequalities - WR 3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ANTH 201, or SOC 201, or SOC 202.  
Description: One popular story about globalization holds that human beings have been like boats all rising together on a globalizing tide. The course uses data and perspectives from across the social sciences to develop a more realistic story—one that understands that people are not boats and that tides can alternately lift them up or beat them down, refresh them or drown them depending on the circumstances. Questions about those circumstances structure the course. Another question addressed by the course; how can knowing more about globalization and in/equality help us develop the human career in different possible directions? The readings and other materials vary greatly by period, by geographical focus, and by analytical perspective. 
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR). 
Note: Cross-listed with SCHG 333.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 334. Conflict, Law, and Culture 3 Units  
Term Typically Offered: Occasionally Offered  
Description: This course introduces the subfield of cultural anthropology known as legal anthropology. The course considers the relationship between law and culture broadly as well as contemporary issues in legal anthropology and law and society studies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 336. War and Society - WR  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ANTH 201, or SOC 201, or SOC 202.  
Description: This course provides cross-cultural and historical perspectives on war and its larger social context. Course readings and lectures use political, economic, cultural, and feminist approaches to understanding war and its effects on social life.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 337. Nationalism, Violence, and the State  
Term Typically Offered: Spring Only  
Description: This course examines the development of the modern nation-state and its connections to violence. The course considers the processes, ideologies, and mechanisms of state-sanctioned violence, interethnic/racial violence, pogroms, massacres and warfare in historical and contemporary contexts. The course also considers the efforts of international agencies in the establishment of courts and the allocation of punishments and formal mechanisms countries have utilized to resolve conflict.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 338. Anthropology of Refugees  
Term Typically Offered: Spring Only  
Description: The course addresses forms of forced migration, including refugees, internally displaced persons, and those displaced by development and disasters. The course is organized around four broad themes: defining and conceptualizing refugees and forms of international intervention; anthropological theory of mobilities and displacement; and applied anthropology. The course covers theoretical implications of displacement central to the anthropological concern with transnational movements, mobility, identity, and belonging and the notion of the ethnographic field.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 339. The Anthropology of Space and Place  
Term Typically Offered: Occasionally Offered  
Description: Does where you are have anything to do with who you are? Course examines whether different spaces such as nation-states, regions, towns, and neighborhoods have anything to do with cultural difference and similarity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 340. Human Rights  
Description: An overview of human rights discourse, laws, social movements and organizations. Critical anthropological analysis of human rights as a social, cultural and legal system; discussion of debates such as universalism versus cultural relativism.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 342. Museums, Culture and Nationhood  
Term Typically Offered: Occasionally Offered  
Description: Examines the historical and cultural dimensions of museums; explores representations of ethnic groups in museum settings and public culture.  
Note: Cross-listed with PAS 345.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 343. Language and Culture - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Description: An ethnographic perspective to the study of language, investigating how it is used to create and maintain social institutions and rituals, and how it is differentiated across genders and ethnicities.  
Note: Cross-listed with ENGL 330 and LING 330.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 344. Anthropology of Clothing  
Term Typically Offered: Fall Only  
Description: Class will study how fashion and clothing are a means of understanding culture and identity; explores meaning of production and consumption of clothing globally.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 346. Sustainability: Anthropological Perspectives  
Term Typically Offered: Spring Only  
Description: Decision makers often target growth, mostly measured by economic indicators, as the cure-all solution to a myriad of economic, ecological, and social challenges. However, growth without consideration of the environment or social equity often leads to recurring crises. This course considers environmental, social, and economic challenges that we face from a different angle: How can we meet the needs of the present without compromising the ability of future generations to meet their own needs? The goal of this course is to foster systems thinking and take a holistic approach to explore theoretical and practical issues and solutions related to environmental, social, and economic sustainability.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 347. Global Capitalisms  
Term Typically Offered: Spring Only  
Description: The course adopts an interdisciplinary approach to explore how capitalism is organized, practiced or resisted. It seeks to understand capitalism as historically situated and culturally-informed practices in different world regions.  
Note: Cross-listed with AST 347.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 348. State & Empire  
**Description:** The argument: that states and empires lie at the heart of the social sciences, of the humanities, and of our everyday lives. The devil lies mainly in the details. Different states and empires serve as examples, with specific foci depending on the instructor’s expertise. Stressed: how older empires haunt newer ones. Also emphasized: colonization and empire work as much “at home” as they do “abroad”. The course is organized to keep problematical character of states and empires in our sights. It is organized, that is, to suggest that states and empires may often present where we ordinarily do not look for them.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 349. Modes of Consciousness  
**Term Typically Offered:** Occasionally Offered  
**Description:** This course is devoted to examining how consciousness mediates between humans and the wider material world. While all of the concepts central to anthropology and the other social sciences—culture, society, evolution, history, mind, politics, economics—are premised in consciousness, the premise receives attention only sporadically. The attention that has been paid reveals that consciousness is not uniform. It has various modes. Thus the course focuses on these.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 351. Medical Anthropology  
**Term Typically Offered:** Spring Only  
**Description:** The study of health in cultural and environmental context, and cultural diversity in beliefs and behavior relating to health and healing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 352. Food and Body Politic  
**Term Typically Offered:** Fall Only  
**Description:** This course takes an interdisciplinary approach to the study of food. The course examines food and food-ways as products of soil, culture and politics. The study of food reveals much about social relations (family, gender and work) as well as national and international health, economic and environmental policy. Students will consider the forces that have shaped the food system and our daily food choices, or lack there of. In particular, the course traces the evolution of the industrial food system in America and the impact this system has on our health, identity, environment, worker’s rights, natural resources, animals, crop diversity and more.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 353. Evolutionary Anthropology  
**Term Typically Offered:** Occasionally Offered  
**Description:** An evolutionary anthropologist works to understand human biology and genetics using the framework of evolutionary theory to test explicit hypotheses regarding human variation. This course will review basic evolutionary theory and provide an introduction to the field of evolutionary anthropology. Special emphasis will be placed on the importance of hypothesis testing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 354. Anthropology of Infectious Disease  
**Term Typically Offered:** Fall Only  
**Description:** Anthropology helps us understand our species across time and space from cultural and biological perspectives, and when investigating how infectious disease affects our species we must use the same perspectives. A bio-cultural approach on past and present infectious disease creates a more comprehensive and holistic scenarios when reconstructing the impact of pathogens on human populations. The course covers four paradigmatic infectious diseases: plague, leprosy, tuberculosis, and cholera.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 355. Field Methods in Archaeology  
**Term Typically Offered:** Fall, Spring  
**Details announced each semester.**

ANTH 356. Special Topics in Anthropology  
**Term Typically Offered:** Occasionally Offered  
**Note:** May be repeated as topics vary, but no more than two courses will be accepted toward the major.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)

ANTH 357. Field Methods in Archaeology  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Permission of instructor.

**Description:** A field course in which students participate in site survey and excavation. Requires 35 hours a week in the field and a paper.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupscheduleclassschedule.cfm)
ANTH 378. Lithic Technology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing or above.
Description: This course provides an introduction to the study of stone tool technology. Topics to be covered include broad examination of major changes in stone tool technology during the course of human prehistory (~3.3 million-10,000 years ago), analytical approaches commonly employed by archaeologist to interpret the lithic record, and experiential learning through knapping and lab exercises. In addition to the hands-on exercises, the course material is supported by films, and required readings from the textbooks and journal articles. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 379. Ceramic Analysis 3 Units
Description: Pottery is abundant in many archaeological sites, and the study of pottery has a long history in archaeology. Analysis and interpretation of ceramics has been used by archaeologists to accomplish varied ends: to establish a time scale, to document interconnections between different areas, sites or groups of people, and to suggest what activities were carried out at particular sites. Archaeologists also use ceramics as a basis to understand the organization of ceramic production itself as an important activity. The varied means that archaeologists use to bridge the gap between the recovery of ceramics and their interpretation is the focus of this course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 401. Cooperative Internship in Anthropology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Permission of the Anthropology department faculty internship coordinator or department chair.
Description: An assignment with a public agency or business. A written report or project is required.
Note: May be repeated.
Note: Three hours may apply to Anthropology major or minor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 410. Skeletal Forensics 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ANTH 327.
Description: Details advanced recovery methods, the use of anthroposcopic and metric traits to estimate race, age, sex and stature. Various forms of trauma and postmortem changes to bone are highlighted. Specific aspects of individualization and positive identification are assessed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 430. Practicum in Anthropology Education 1 Unit
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor required.
Description: A practical learning experience in active learning pedagogy and practices in anthropology education. This course includes experiential learning as a peer educator/undergraduate teaching assistant.
Note: Must be selected by instructor for anthropology UTA to enroll.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 450. Readings and Research 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 9 hours in Anthropology or related areas and department chair consent.
Description: Supervised readings and research centered around a specific region or topical field of the student's choice.
Note: May be repeated for a maximum of 6 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 451. Independent Study 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 475. Engaged Anthropology - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Junior standing and 15 credits in Anthropology or permission of instructor.
Description: In this course, students will explore anthropology as a profession and discipline that engages the public and contemporary issues and examine how majors use the knowledge and skills of an anthropology degree in the professional world. The purpose of this course is to enable students to make connections across sub fields, synthesize their understanding of anthropology, and think critically about its place in our communities and the world. The course will be team-taught and will cover the three sub-fields in the department: Cultural Anthropology, Biological Anthropology, and Archaeology. Course activities will include field trips, engagement with local organizations, and guest lectures. This course will also include a practicum intended to prepare anthropology majors for a successful job search or graduate school application in which students will learn to articulate the knowledge and skills they have acquired during their undergraduate degree.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 499. Senior Honors Thesis 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior class standing, major in anthropology; admission to Anthropology Department honors program.
Description: To be taken only with consent of a member of the departmental faculty who agrees to act as thesis adviser. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 507. Space, Place and Culture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Graduate status, or consent of instructor.
Description: This course is organized around the question of how culture is spatially distributed. How are specific spaces and places constructed, connected, and interpreted through cultural practices? For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 508. History of Anthropology - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior status, and 18 hours of Anthropology credits.
Description: Class explores the range of questions anthropologists pose and their historical context; how and why are human groups constructed and how are they similar to and different from one another. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Anthropology graduate students cannot enroll in this class.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 509. Archaeological Theory and Methods - WR 3 Units
Prerequisite(s): Junior or senior status, and 18 hours of Anthropology credits.
Description: Archaeological theory and methods emphasizing basic practices and procedures in research skills and writing in archaeology. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Anthropology graduate students cannot enroll in this class.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 510. Methods in Biological Anthropology - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ANTH 202, and either ANTH 303 or ANTH 353.
Description: Bio-anthro methods, general approaches to research, and data management skills. Covers anthropometric variation and analysis of molecular data. Note: Anthropology graduate students may not enroll in this course. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 511. Ethnographic Methods - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior or senior status, and 18 hours of Anthropology credits.
Description: Explores the range of qualitative research methods and techniques. Emphasis is on designing and developing a research project and conducting ethnographic fieldwork. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Anthropology graduate students cannot enroll in this class.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 512. Methods in Skeletal Forensics - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ANTH 202 or ANTH 204, and ANTH 327, and ANTH 410.
Description: This course trains students in the methods for documenting and preparing a skeletal forensics analysis report. Students will analyze a set of skeletal remains of an "unknown" individual or individuals, catalog and enter each element into a database for analysis, analyze the results, and write a report of the unknown individual(s) including species, age, ancestry, stature, sex and any trauma or pathologies present. Students will produce a documented report of the remains that could be entered as evidence and stand scrutiny of a court or coroner's rendering. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 517. Anthropology of China 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Graduate standing or permission of the instructor.
Description: It is widely acknowledged that China is a rising power in the global political economy. However, with the coexistence of tradition and modernity, the nature of Chinese culture and society remains heavily debated. This course explores a wide range of topics and issues that constitute the socio-cultural fabric of contemporary mainland Chinese society. These topics include, but are not limited to, family, gender, ethnicity, religion, education, politics, and economics. Our investigation will focus on two broad themes: 1) the unity and diversity of Chinese society, and 2) the continuity and change that took place from late traditional China to the present. The goal of this course includes learning various aspects of Chinese culture and society, studying diverse anthropological approaches to the study of China, and examining the political dimensions of representation. Note: Cross-listed with AST 517.
Note: Students may not receive credit for this course and ANTH 317 or AST 317.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 522. Ecology, Politics and Culture 3 Units

Description: This course examines the relations between ecology, economic system, culture, ideology and power relations. The focus moves back and forth between theoretical synthesis and case studies. The case studies are both ethnographic and historical. A few of the themes treated in detail: the role of religious ritual in regulating certain environments; the mutual influences of ecology and political economy in the making of "the Third World"; the local and global politics of national parks; combined and uneven development. Stress is laid on political ecology as a complex, shifting, analytical framework. Questions of sustainability weave in and out of the proceedings. Also emphasized: the story of ecological analysis over the last seventy years is a story about changing relations between anthropology and other social sciences. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 526. Archaeology as Practice 3 Units

Prerequisite(s): ANTH 204.

Description: This course focuses on the analytical techniques that archaeologists use to study the past. Students will learn the practice of archaeology emphasizing modern methods of survey, excavation and analysis used to investigate the past. By the end of the course, students will have learned how to construct their own research plan, collect and analyze their data and draw inferences about the past. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 528. Animals and Humans 3 Units

Description: This course explores the complex and often contradictory ways that humans interact with animals. We cover a range of topics emerging from a multidisciplinary perspective including the origins of hunting and domestication: modern animal economies; cross-cultural attitudes toward animals; symbolic representations of animals in art, literature, religion and folklore; animals as companions; and the status of animals, both wild and domestic, in contemporary society. Students will gain a broad, cross-cultural perspective on the relationship humans have with the rest of the animal kingdom, focused mainly on other mammals. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 529. Zooarchaeology 3 Units

Prerequisite(s): Graduate student status.

Description: The course will provide basic instruction in the identification of animal remains commonly recovered from archaeological sites. It will follow a taphonomic approach to zooarchaeology with an emphasis on understanding and interpreting the formation of archaeological faunal assemblages. The course examines approaches to using bone data to construct and investigate archaeological questions. Students will engage in hands-on identification and interpretation of animal remains commonly found in archaeological sites. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 530. Human Impacts on Past Environments 3 Units

Prerequisite(s): Graduate status, or consent of instructor.

Description: This course is about the archaeological and paleoecological record of past human impacts on Earth. We will explore a number of concepts regarding socio-natural systems including land degradation, perception, resilience and sustainability. The course will provide a background for understanding the ways archaeologists and paleoecologists reconstruct past environments and recognize human impacts. We will examine a number of global case studies and discuss the possible lessons for current and future decision-making in human land-use. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 531. Anthropology of Water 3 Units

Description: Explores the political ecology of water from prehistory to present; integrates the archaeological and historical record with contemporary examples of water management; emphasis on privatization, globalization, and health. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 534. Food and Farm Movements in the Americas 3 Units

Description: An overview of social and political activism associated with agriculture and food. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 535. Nutritional Anthropology 3 Units

Description: This course provides students with a broad overview of topics in nutritional anthropology; an area of study that is highly multidisciplinary. Students will learn to critically think about the impact of culture concerning the current understanding of nutrition in a biocultural context. The course will range over nutritional aspects of human evolution, federal perspectives on nutrition, aspects of nutritional epidemiology, food and ethnicity, food and self, and obesity as culture bound syndrome. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 540. Health and Civilization 3 Units

Prerequisite(s): Graduate status, or consent of instructor.

Description: Explores biological strategies of human adaptation to different environments from an evolutionary emphasis on plasticity of human evolutionary responses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 549. Modes of Consciousness 3 Units

Term Typically Offered: Occasionally Offered

Description: This course is devoted to examining how consciousness mediates between humans and the wider material world. While all of the concepts central to anthropology and the other social sciences—culture, society, evolution, history, mind, politics, economics—are premised in consciousness, the premise receives attention only sporadically. The attention that has been paid reveals that consciousness is not uniform. It has various modes. Thus the course focuses on these. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 562. Special Topics in Cultural Anthropology  3 Units
Description: An examination of one or more specific areas of social-cultural anthropology. Details announced each semester. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 563. Special Topics in Biological Anthropology  1-3 Units
Description: An examination of one or more specific areas of biological anthropology. Details announced each semester. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 564. Special Topics in Archaeology  1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ANTH 202 and ANTH 204.
Description: An examination of specific areas of archaeology. Details announced each semester. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 578. Lithic Technology  3 Units
Prerequisite(s): One introductory course in ANTH 201, ANTH 202, ANTH 203, or ANTH 204.
Description: This course provides an introduction to the study of stone tool technology. Topics to be covered include broad examination of major changes in stone tool technology during the course of human prehistory (~3.3 million - 10,000 years ago), analytical approaches commonly employed by archaeologists to interpret the lithic record, and experiential learning through knapping and lab exercises. In addition to the hands-on exercises, the course material is supported by films, and readings from the textbooks, and journal articles. Students are required to submit a literature based term paper focusing on ethnographic or archaeological case studies that incorporate lithic datasets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 579. Ceramic Analysis  3 Units
Description: Pottery is abundant in many archaeological sites, and the study of pottery has a long history in archaeology. Analysis and interpretation of ceramics has been used by archaeologists to accomplish varied ends: to establish a time scale, to document interconnections between different areas, sites or groups of people, and to suggest what activities were carried out at particular sites. Archaeologists also use ceramics as a basis to understand the organization of ceramic production itself as an important activity. The varied means that archaeologists use to bridge the gap between the recovery of ceramics and their interpretation is the focus of this course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Arabic (ARAB)

ARAB 121. Basic Arabic I  4 Units
Term Typically Offered: Fall, Spring
Description: Beginning course in Modern Standard Arabic that introduces sound and writing systems and certain morphological and syntactic features. Emphasis on reading, speaking, listening and writing skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARAB 122. Basic Arabic II  4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ARAB 121, placement, or permission of instructor.
Description: Second course in Modern Standard Arabic with continuing emphasis on listening, speaking, reading and writing skills, and vocabulary acquisition. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARAB 123. Basic Arabic III  4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ARAB 122, or permission of instructor, or placement.
Description: Third course in Modern Standard Arabic that continues emphasizing listening, speaking, reading, and writing skills with advanced study of grammar. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARAB 200. Study Abroad  1-15 Units
Term Typically Offered: Fall, Spring
Description: Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARAB 201. Intermediate Arabic I  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ARAB 123, or equivalent.
Description: To develop communicative skills of listening, speaking, reading and writing. Insight into Arabic language and culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARAB 202. Intermediate Arabic II  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARAB 201, or equivalent.
Description: Continued work on communicative skills of listening, speaking, reading and writing. Insight into Arabic language and culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARAB 300. Study Abroad  1-15 Units
Term Typically Offered: Occasionally Offered
Description: Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**Arab 321. Arabic Conversation: Communication in Cultural Content**  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ARAB 201, or instructor consent.  
**Description:** The goal of this class is to increase communicative proficiency in modern standard Arabic in a variety of situations through the use of everyday scenarios and functional vocabulary. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Arab 322. Advanced Writing Techniques in Modern Standard Arabic**  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ARAB 201, or instructor consent.  
**Description:** The focus is on writing essays using transitional devices and idiomatic expressions than intermediate ARAB 201. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Arab 323. Understanding Journalistic Arabic: Reading and Listening to Arab Media**  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Satisfactory completion of ARAB 201, or instructor consent.  
**Description:** This course is designed to increase written and aural proficiency with Journalistic Arabic. It is intended for those students who have completed ARAB 201 and have a strong command of basic structures and vocabulary in Modern Standard Arabic. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art (Studio) (ART)**

**Art 101. Fundamentals of Drawing and Design**  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** An introductory studio experience exploring the basic elements of art through experimentation with various media and techniques including an introduction to the use of the computer as an art tool.  
**Note:** Open to non-Art majors.  
**Note:** May not replace ART 105 or ART 106.

For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art 102. Fundamentals of Digital Art**  
**Term Typically Offered:** Fall, Spring  
**Description:** An introductory studio experience exploring the basic elements of art through experimentation with digital media and techniques using the computer as an art tool.  
**Note:** The course is designed for non-Art majors and will not count toward the major or the minor in Fine Arts.

For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art 105. Foundation 2-D Design**  
**Term Typically Offered:** Fall, Spring  
**Description:** Investigation of line, form, value, color and composition in two-dimensional exercises. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art 106. Foundation 3-D Design**  
**Term Typically Offered:** Fall, Spring  
**Description:** Investigation of line, form, space, light, color, and composition in three-dimensional exercises. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art 107. Foundation Drawing**  
**Term Typically Offered:** Occasionally Offered  
**Description:** Study of the basic elements of drawing including line, value, mark-making and composition. Coursework may include work from nude models.  
**Note:** Formerly ART 115.

For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art 200. Studio Art and Visual Culture - AH**  
**Term Typically Offered:** Fall, Spring  
**Description:** An introduction to the studio arts, for non-majors, involving analysis, interpretation, criticism and art appreciation through studio practice. This course is intended to give the student a foundation, or strengthen a foundation a student may already have, in visual fundamentals through lectures, readings, gallery visits and hands-on activities. Students will develop an understanding of the elements of art, a basic vocabulary for describing visual art, a general understanding of the role art has played throughout Western history, and contemporary trends. Students will also be encouraged to create subject matter of personal significance to them and by the end of the term to have directions and goals they may wish to pursue in future efforts. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art 205. Foundation Design Methods**  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** ART 105, ART 106, or ART 107; or faculty consent.  
**Description:** Fundamental methods of solving visual communication problems found in the design arts with an emphasis on clarity and immediacy of the solution for a general audience. This course is required for students who intend to apply for the BFA program in Graphic Design. For class offerings for a specific term, refer to the Schedule of Classes. (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 206. Foundation Art Concepts and Methods 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ART 105, ART 106, or ART 107; or faculty consent.
Description: Foundation level introduction to concepts and methods in the visual arts. This course utilizes creative and critical thinking to examine and explore a range of critical orientations and interpretive processes in the creation and understanding of meaning across studio disciplines. This three credit hour course is part of the foundation sequence of classes (one of three 200 level choices that can fulfill the requirement of students seeking a BA or BFA).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 207. Foundation Figure Drawing 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 107.
Description: Study from the human figure in various media; consideration of other basic drawing problems. Coursework may include work from nude models.
Note: Formerly ART 116.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 301. Introduction to Painting 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: Basic problems in painting structured to develop technical and intuitive skills, and to allow for experimentation in a variety of media. Coursework may include work from nude models.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 305. Drawing and Composition 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206, or ART 207; or faculty consent.
Description: Further study of drawing with a focus on the development of observational and formal skills through an emphasis on spatial structures and the organization of pictorial space. Coursework may include work from nude models.
Note: Formerly taught as Intermediate Drawing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 311. Introduction to Glassmaking Techniques 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: Introduction to hot, warm and cold glass-making techniques. Emphasis on the historic and contemporary context of glass art.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 312. Introduction to Sculpture 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: Introduction to concepts, materials, and processes of sculpture. This course explores both figurative and non-figurative issues in three dimensional art.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 331. Introduction to Clay 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: Students will learn to create forms in clay using the potter’s wheel. A variety of vessel forms will be addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 341. Introduction to Printmaking 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: An introduction to printmaking as a media for visual expression. Traditional techniques such as intaglio, relief and silkscreen are offered utilizing hand-drawn, photographic or digital sources.
Note: Formerly ART 325.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 351. Introduction to Black and White Photography 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: An introduction to photography as a fine art medium; emphasis on black and white photography utilizing a manual 35 mm camera. Students will learn how to develop film, process prints and gain insight into visual literacy.
Note: ART 351 is required for students pursuing a BFA in 2D Studios with a concentration in photography.
Note: Formerly Introduction to Photography.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 361. Introduction to Interior Design 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: An introduction to interior design through understanding of architectural drawings and conceptual development. This will be achieved through architectural drafting and conceptual sketches.
Note: This course is a requirement for completion of the BFA in Interior Design.
Note: Formerly taught as Introduction to Interior Architecture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 362. Color Theory and Human Factors in Interior Design  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 361, BFA Candidacy, or faculty consent.
Description: A visual design theory course that explores the use of color theory and human factors/ergonomics information necessary for analyzing and designing the interior environment.
Note: This course is required to be taken in the same semester as ART 561 Interior Design Studio I.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 371. Introduction to Graphic Design  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; BFA Graphic Design Candidacy; or faculty consent.
Description: The development of graphic design as a distinct practice including design theories with emphasis on the 20th century, modernist, postmodernist and semiotic perspectives.
Note: This course is a requirement for completion of the BFA in Graphic Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 372. Creativity in Advertising  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 105, ART 106, ART 107 and ART 205; BFA Graphic Design Candidacy or faculty consent.
Description: Exploration of the team dynamic in an advertising agency, including the roles of art director, copywriter, and account planner. Students will work in teams and be given weekly advertising assignments in 1 of 3 consumer categories: package goods, service and non-profit. Students will be challenged to approach assignments strategically, conceptually and to develop rough executions of their ideas to make presentations and learn critiquing skills.
Note: This course satisfies an elective for completion of the BFA in Graphic Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 381. Introduction to Fiber/Mixed Media  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: This mixed media course introduces fiber and fabric materials and processes. Emphasis is placed on the interconnectedness of fiber to other media - painting and printing on fabric, collage and photo imagery on cloth and sculptural form in fiber.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 383. Papermaking  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: Introduces the basic procedures of handmade paper while investigating paper-making as a means for contemporary expression. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 385. Introduction to Book Arts  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; ART 206; or ART 207; or faculty consent.
Description: An introduction to traditional and non-traditional book arts with focus on the construction of traditional book forms such as folded bindings, Japanese stab bindings, portfolios, as well as types of multi-signature bindings. Students will investigate approaches to combining construction methods as well as the incorporation of content and imagery into the book form.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 390. Special Problems in Studio Art  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ART 105, ART 106, ART 107, and ART 205; or ART 206; or ART 207; or faculty consent.
Description: Exploration of a particular theme, medium or combination of media outside the scope of established departmental curriculum.
Note: May be repeated with different subtitles to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 391. Special Problems in Studio Art for Non-Majors  3 Units
Term Typically Offered: Occasionally Offered
Description: Exploration of a particular theme, medium, or combination of media for non-studio art majors.
Note: The course is designed for non-art majors and will not count toward the major or the minor in Fine Arts.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 407. Art Education (Elementary and Middle School)  3 Units
Term Typically Offered: Occasionally Offered
Description: Discussion to establish philosophy, and studio to explore projects and media appropriate for kindergarten through grade 7.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 440. Cooperative Internship in Art 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): See requirements for Cooperative Internship Program in the Undergraduate Catalog.
Description: An individually-arranged course combining a work experience with a related academic or creative project.
Note: This work/learning arrangement must be overseen by a studio faculty member and by a designated employee of an organization.
Note: Registering for ART 440 is contingent upon the student identifying a studio faculty member who will sponsor and oversee their work.
Note: May not be used to fulfill minimum requirements for the major in Art or Art History.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 501. Concepts in Painting 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 301 and BFA Candidacy; or faculty consent.
Description: Exploration of conceptual and technical issues in painting.
Note: Formerly Advanced Painting.
Note: May not be repeated.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 502. Advanced Concepts in Painting 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 301 and BFA Candidacy; or faculty consent.
Description: Exploration of individual (self-generated) conceptual issues and techniques in painting.
Note: Formerly Directed Study Painting.
Note: May be repeated up to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 503. Special Topics in Painting 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 301 and BFA candidacy; or faculty consent.
Description: Focused exploration of a painting topic, process, technique or issue.
Note: May be repeated up to 12 credit hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 504. Directed Study in Painting 1-3 Units
Prerequisite(s): ART 502 and BFA Candidacy; or faculty consent.
Description: A focused, in-depth exploration of self-generated problems in painting.
Note: May be repeated up to a maximum of 12 credit hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 505. Advanced Figure Drawing 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 305 and BFA Candidacy; or faculty consent.
Description: Advanced study of the human figure exploring more complex problems as a means of developing an individual approach to drawing. Coursework may include work from nude models.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 506. Themes and Concepts in Drawing 3 Units
Prerequisite(s): ART 305 and BFA Candidacy; or faculty consent.
Description: Individual problems stressing development of personal imagery and concepts and optional media and approaches. Coursework may include work from nude models.
Note: Formally taught as Advanced Drawing Concepts.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 507. Directed Study in Drawing 1-3 Units
Prerequisite(s): ART 505 or ART 506; and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in drawing.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 508. Art Education Methods and Research I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Fine Arts majors only.
Description: Art education methods and current research readings to satisfy Kentucky certification requirements for teachers of art in grades K-6.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 509. Anatomy & Life Drawing 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 305 and BFA Candidacy; or faculty consent.
Description: The study of human anatomy for the artist as visual structural form with emphasis on skeletal system, and movement; muscle system, and surface features. Course work may include drawing from nude models.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 510. Design for Visualizing Data and Information 3 Units
**Prerequisite(s):** ART 572; BFA Graphic Design Candidacy; or faculty consent.
**Description:** Exploration of the design and production of a variety of formats (charts, tables, maps, diagrams) and challenges (presenting the information in a visually engaging way with accuracy and integrity); targeting a variety of audiences. Emphasis is placed on both the thinking and the making that goes into a successfully designed data visualization.
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 511. Advanced Glassmaking Techniques 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 311 and BFA candidacy; or faculty consent.
**Description:** Specialized exploration of glassmaking techniques. Emphasis on professional and academic issues pertaining to glass.
**Note:** May be repeated up to 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 512. Directed Study in Glass 1-3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 511 and BFA Candidacy; or faculty consent.
**Description:** Experimentation on individual problems in Glass. Emphasis is placed on realization and execution of ideas.
**Note:** May be repeated up to 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 518. Art Education Methods and Research II 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** Fine Arts majors only.
**Description:** Art education methods and current research readings to satisfy Kentucky certification requirements for teachers in grades 7-12. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 520. Adventures in Design Methods and Processes 3 Units
**Term Typically Offered:** Spring Odd Years
**Prerequisite(s):** ART 572; BFA Graphic Design Candidacy; or faculty consent.
**Description:** An in-depth investigation of experimental methods of the design process within the context of designing effective visual communications. This studio-based exploration of graphic design revolves around Adventures: unconventional projects with emphasis placed on experimentation and observation.
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 521. Practice of Sculpture 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 321 and BFA Candidacy; or faculty consent.
**Description:** Introduction to a wide range of sculpture processes and media with an exploration of concepts and issues in contemporary sculpture.
**Note:** Formerly taught as Sculpture II.
**Note:** May be repeated to a maximum of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 522. Sculpture Strategies 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 321 and BFA Candidacy; or faculty consent.
**Description:** Exploration of sculpture at the advanced level with emphasis on developing an individual direction in sculpture.
**Note:** Formerly taught as Advanced Sculpture.
**Note:** May be repeated to a maximum of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 523. Directed Study in Sculpture 1-3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 521 and BFA Candidacy; or faculty consent.
**Description:** Experimentation on individual problems in sculpture.
**Note:** May be repeated to a maximum of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 530. Environmental Graphic Design and Wayfinding 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 572; BFA Graphic Design Candidacy; or faculty consent.
**Description:** Problems in architectural, environmental, and placemaking graphic design.
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 531. Advanced Ceramics: Wheelthrowing 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** ART 331 and BFA Candidacy; or faculty consent.
**Description:** Focus on individual expression, experimentation and development of subject in wheelthrown vessels. Loading and firing of kilns is expected.
**Note:** Formerly taught as Advanced Ceramics I.
**Note:** May be repeated to a maximum of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 532. Advanced Ceramics: Sculptural Forms 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 331 and BFA Candidacy, or consent of the instructor.
Description: Focus on individual expression, experimentation and development of content driven sculptural forms. Students explore abstraction, observation and narrative through singular or modular pieces. Loading and firing of kilns is expected.
Note: Formerly taught as Advanced Ceramics II & Handbuilding Techniques.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 533. Clay Glazes and Firing 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 331 and BFA Candidacy, or faculty consent.
Description: The study of the chemistry of clay and glazes. Students will develop and test formulas for clay bodies, slips and glazes. The theories and practice of firing ware will also be explored.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 534. Directed Study in Ceramics 1-3 Units
Prerequisite(s): ART 531 and BFA Candidacy, or faculty consent.
Description: Experimentation on individual problems in clay and ceramics.
Note: May be repeated up to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 540. Art, Design and Meaning 3 Units
Term Typically Offered: Spring Even Years
Prerequisite(s): ART 572; BFA Graphic Design Candidacy, or faculty consent.
Description: Readings and experiments applying semiotics to visual communication problems in the fine and design arts.
Note: This course satisfies an elective for completion of the BFA in Graphic Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 541. Studio Practice in Printmaking 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 341.
Description: Advanced projects in all printmaking media. Emphasis is on the unique qualities of print media for personal expression.
Note: Formerly ART 525.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 542. Digital Printmaking 3 Units
Prerequisite(s): BFA Candidacy or faculty consent.
Description: Using the computer to create imagery for printmaking. An introduction to digital techniques to be used alone or in conjunction with traditional printmaking media to produce fine art prints.
Note: Formerly ART 526.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 543. Directed Study in Printmaking 1-3 Units
Prerequisite(s): ART 541 and BFA Candidacy, or faculty consent.
Description: Experimentation on individual problems in printmaking.
Note: Formerly ART 527.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 550. Lettering and Font Design 3 Units
Term Typically Offered: Spring Odd Years
Prerequisite(s): ART 351 or faculty consent.
Description: In-depth investigation of the contemporary world of handmade work marks and typeface design.
Note: This course satisfies an elective for completion of the BFA in Graphic Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 551. Lighting and View Camera 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ART 351 or faculty consent.
Description: Exploration of black and white photography emphasizing techniques and processes as well as conceptual problem solving.
Note: Formerly taught as Photography Techniques and Processes.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 552. Color Imaging 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 351 or faculty consent.
Description: Exploration of color photography concepts and digital media utilizing photographic principles and techniques.
Note: Formerly Color Photography.
Note: May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 554. Alternative and Historic Photographic Processes 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 351 or Faculty Consent.
Description: Exploration of historic and alternative methods of photographic image making. Students will gain an understanding of historic photographic principles in a historic context.
Note: May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 555. Directed Study in Photography 1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ART 351, BFA Candidacy, or faculty consent.
Description: Experimentation on individual problems in photography.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 556. Experimental Photography 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 351, or faculty consent.
Description: Experimentation with historic and alternative photographic methods of image making.
Note: May be repeated up to 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 557. Advanced Photography 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ART 551 and ART 552, or faculty consent.
Description: Working in a variety of photographic media including color, black and white, and alternative processes, students develop a personal portfolio and understanding of contemporary issues in photography.
Note: Formerly taught as ART 553.
Note: May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 560. Sustainable Design 3 Units
Prerequisite(s): ART 361 and ART 362; BFA Candidacy; or faculty consent.
Description: Principles and theory of sustainable design in order to prepare students for the LEED (Leadership in Energy and Environmental Design) accreditation exam. Students will also learn to apply LEED professional standards into practical design solutions through interdisciplinary projects.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 561. Interior Design Studio I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 361 and BFA Candidacy; or faculty consent.
Description: Introduction to small scale interior design projects emphasizing process and techniques in relation to special populations.
Note: Formerly taught as Interior Architecture Studio I.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 562. Interior Design Studio II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 561 and BFA Candidacy; or faculty consent.
Description: Study of three-dimensional space through model making.
Note: Formerly taught as Interior Architecture Studio II.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 563. Interior Design Studio III 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 562 and BFA Candidacy; or faculty consent.
Description: Design of projects involving such areas as historic preservation, hospitality, and retail sales.
Note: Formerly taught as Interior Architecture Studio III.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 564. Interior Design Studio IV 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 563 and BFA Candidacy; or faculty consent.
Description: Large scale office design involving programming, space planning and specifying materials. Practice for NCIDQ exam.
Note: Formerly taught as Architecture Studio IV.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 565. Directed Projects in Interior Design 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing; BFA Candidacy; or faculty consent.
Description: Development of advanced research and project design.
Note: Formerly taught as Directed Projects in Interior Architecture.
Note: May be repeated to a maximum of 6 hours.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 566. Interiors Construction 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 361 and BFA Candidacy; or faculty consent.
Description: A study of interiors construction components and materials. A review of building codes, specifications and terminology.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 567. Interior Finishes 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 361 and BFA Candidacy; or faculty consent.
Description: A study of interior materials, such as wall coverings and floor coverings and their fabrication, and marketing and installation procedures.
Note: Formerly taught as Textiles and Finishes for Interior Design.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 568. Building Systems 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 361 and BFA Candidacy; or faculty consent.
Description: An investigation of building systems including - HVAC, plumbing, electrical, lighting and acoustics and other systems.
Note: Formerly taught as Environmental Systems.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 569. Computer Applications in Interior Design 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 361 and BFA Candidacy; or faculty consent.
Description: Intensive use of industry-standard software applications in the exploration, documentation and presentation of design projects. Course will take students from 2-D drafting to 3-D modeling, rendering, and animation.
Note: Formerly AutoCad.
Note: This course is a requirement for completion of the BFA in Interior Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 570. Design for Public Issues 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Senior standing and BFA Graphic Design Candidacy; or faculty consent.
Description: The development, preparation and editing of a resume and a portfolio of work for presentation within the graphic design industry. Focus on graphic design for a defined public issue and audience. Through research and critical thinking, students define, develop and design a complete visual communications program to effectively communicate the selected public issue to the specifically defined audience.
Note: This course is a requirement for completion of the BFA in Graphic Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 571. Typography I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 371 and BFA Graphic Design Candidacy; or faculty consent.
Description: Investigation of typography principles and methods with an emphasis on text typography.
Note: This course is a requirement for completion of the BFA in Graphic Design.
Note: Formerly taught as Letterforms I.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 572. Typography II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ART 571 and BFA Graphic Design Candidacy; or faculty consent.
Description: Investigation of advanced typography principles and methods with an emphasis on display typography.
Note: This course is a requirement for completion of the BFA in Graphic Design.
Note: Formerly taught as Letterforms II.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 573. Identity Systems 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ART 572 and BFA Graphic Design Candidacy; or faculty consent.
Description: The identifying mark and its application across a variety of message platforms. This course is a requirement for completion of the BFA in Graphic Design.
Note: Formerly taught as Graphic Design IV.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 574. The Book Form  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ART 572 and BFA Graphic Design Candidacy; or faculty consent.  
**Description:** The communication and expressive possibilities of bound pages as a medium for words and images.  
**Note:** This course is a requirement for completion of the BFA in Graphic Design.  
**Note:** Formerly taught as Graphic Design V.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 575. Packaging Design  
**Term Typically Offered:** Fall Odd Years  
**Prerequisite(s):** ART 572 and BFA Graphic Design Candidacy; or faculty consent.  
**Description:** Problems in designing for packaging structures.  
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.  
**Note:** Formerly taught as Packaging.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 576. Web Site Design  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** ART 572 and BFA Graphic Design Candidacy; or faculty consent.  
**Description:** Investigation and practice of web site design as a contemporary fine art and communication medium.  
**Note:** This course is a requirement for completion of the BFA in Graphic Design.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 577. Design for Interaction  
**Term Typically Offered:** Spring Even Years  
**Prerequisite(s):** ART 572 and BFA Graphic Design Candidacy; or faculty consent.  
**Description:** An investigation of the design process within the context of designing for human interaction; Advanced problems in designing for screen within the context of user experience, user interface, and interaction through screens, movement, and a variety of dynamic graphic displays exploring storymapping and narrative as vehicles.  
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.  
**Note:** Formerly taught as Advanced Web Site Design.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 578. Video  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ART 554 and BFA Candidacy; or faculty consent.  
**Description:** Introductory course presenting the basic techniques of shooting, capturing and editing video digitally.  
**Note:** May be repeated to a maximum of 6 hours.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 579. Directed Study in Graphic Design  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ART 571 and BFA Graphic Design Candidacy; or faculty consent.  
**Description:** Experimentation on individual problems in graphic design.  
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.  
**Note:** May be repeated to a maximum of 12 hours.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 580. Advanced Book Forms  
**Term Typically Offered:** Fall Even Years  
**Prerequisite(s):** ART 574 and BFA Graphic Design Candidacy; or faculty consent.  
**Description:** Advanced problems in publications for print and screen.  
**Note:** This course satisfies an elective for completion of the BFA in Graphic Design.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 581. Advanced Fiber/Surface Design  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ART 381 and BFA Candidacy; or faculty consent.  
**Description:** Traditional as well as non-traditional fiber techniques are used as a means for developing conceptual skills and problem solving ability in pursuit of a personal direction. Emphasis on surface development using printing, painting, and photo techniques.  
**Note:** Formerly taught as Fiber: Surface.  
**Note:** May be repeated to a maximum of 12 hours.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ART 582. Advanced Fiber/ Mixed Media Art  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ART 381 and BFA Candidacy; or faculty consent.  
**Description:** Traditional as well as non-traditional fiber techniques are used as a means for developing conceptual skills and problem solving ability in pursuit of a personal direction. Emphasis on sculptural form, papermaking techniques and installation.  
**Note:** Formerly taught as Fiber: Construction.  
**Note:** May be repeated to a maximum of 12 hours.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 583. Papermaking 3 Units
Prerequisite(s): BFA Candidacy, faculty consent for graduate credit.
Description: Introduces the basic procedures of handmade paper while investigating papermaking as a means for contemporary expression.
Note: May be taken for graduate credit.
Note: May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 584. Directed Study in Fiber and Mixed Media Art 1-3 Units
Prerequisite(s): ART 581 or ART 582, and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in fiber and mixed media art.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 585. Book Art Concepts 3 Units
Prerequisite(s): BFA candidacy or faculty consent.
Description: An introduction to traditional and non-traditional book arts with focus on the construction of traditional book forms such as folded bindings, Japanese stab bindings, portfolios, as well as types of multi-signature bindings. Emphasis will be placed on the book as an art form incorporating concept, design, content, and craft.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 589. Special Problems in Studio Art 3 Units
Prerequisite(s): BFA Candidacy or faculty consent.
Description: Advanced exploration of a particular theme, medium or combination of media outside the scope of established departmental curriculum, with emphasis on individual problems.
Note: May be repeated with different subtitles to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 595. Independent Study 1-3 Units
Prerequisite(s): Minimum grade point average of 3.0 overall, and minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 596. Professional Development in Interior Design - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 564 and BFA Candidacy; or faculty consent.
Description: The professional aspects of interior design, with emphasis on the fundamental knowledge and technical skills required for practice in the interior design profession and the role, purpose, and study of professional development. Students will develop, prepare, and edit a resume and a portfolio of work for presentation within the interior design profession.
Note: This course is a requirement for completion of the BFA in Interior Design.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 597. Professional Development in Studio Arts - CUE 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior standing; BFA Candidacy and successful completion of BFA review.
Description: The development, preparation, and editing of a resume, artist's statement and a body of work for exhibition for 2-D or 3-D studios.
Note: Exhibition must be scheduled within the same calendar year as graduation.
Note: This course is required for the completion of the BFA in Studio Art and is restricted to students completing the BFA program in the current semester.
Note: Permission to enroll will be granted after the student successfully passes the BFA review in the semester prior.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 598. Professional Development in Graphic Design - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 570.
Description: The development, preparation, and editing of a resume and a portfolio of work for presentation within the graphic design profession.
Note: ART 598 may be taken concurrently with ART 570.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Art History (ARTH)

ARTH 203. Introduction to Art - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to the visual arts, for non-majors, involving analysis, interpretation, and criticism.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 250. Ancient Through Medieval Art - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Survey of arts and architecture from antiquity to the Middle Ages.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 270. Renaissance Through Modern Art - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Survey of art and architecture from the Renaissance to the present.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 290. Survey of Asian Art - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A survey of the major artistic traditions of Asia, primarily China, India, Japan, Korea, and Southeast Asia from Neolithic times to the turn of the twentieth century.

Note: Cross-listed with AST 290.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 301. History and Issues of Graphic Design 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): BFA Graphic Design Candidacy or faculty consent.
Description: The themes, styles, expressions, technologies and artists that contributed to contemporary graphic design, with special consideration on the period from 1800 to present.

Note: This course is taken in the same semester as ART 371.
Note: This course is a requirement for the completion of the BFA in Graphic Design.

Note: May be used to satisfy an ARTH elective for the BA in Art History.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 320. Twentieth-Century Art 3 Units
Prerequisite(s): ARTH 270 or faculty consent.
Description: Survey of international art between 1900 and the present.

Note: Credit may not be earned for this course and ARTH 321 or ARTH 325.

Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 321. Art 1900-1945 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 270 or faculty consent.
Description: Survey of international art between 1900 and 1945.

Note: Credit may not be earned for this course and ARTH 320 or ARTH 325.

Note: May be used to satisfy the Period/Area 2 - after 1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 322. Pop Art & Fluxus 3 Units
Prerequisite(s): ARTH 270 or faculty consent.
Description: Pop Art & Fluxus investigates the international, historical, and historiographic components of two artistic movements that developed simultaneously in the late 1950s. The course considers their visual strategies and ideological positions, foregrounds the interpretive contexts in which they have been conventionally situated (ranging from social realism and Marxist critiques to camp sensibility), and challenges students to pursue a critical reevaluation of these approaches.

Note: May be used to satisfy the Period/Area 2 - after 1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 325. Art Since 1945 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 270, or faculty consent.
Description: Survey of international avant-garde art from 1945 to the present.

Note: Credit may not be earned for this course and ARTH 320 and ARTH 321.

Note: May be used to satisfy the Period/Area 2 - after 1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 326. International Trends in Contemporary Art  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 270 or faculty consent.  
Description: Survey of international developments in contemporary art since 1980.  
Note: May be used to satisfy the Period/Area 2 - after 1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 331. Chinese Art  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 250, or ARTH 270, or ARTH 290; or faculty consent.  
Description: An introduction to important Chinese artistic works and stylistic changes through history and their relationships with Chinese society, culture and visual traditions.  
Note: Cross-listed with AST 331.  
Note: May be used to satisfy the Period/Area 3 - Non-western requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 332. Twentieth Century Chinese Artists and Architects - AH, D2  
Term Typically Offered: Spring Only  
Prerequisite(s): ARTH 250, ARTH 270, or ARTH 290; or faculty consent.  
Description: This course studies twentieth-century Chinese art and architecture through major artists and architects whose work showcases the rethinking of Chinese culture in the modern era and global context.  
Note: May be used to satisfy the Period/Area 3 requirement.  
Note: Cross-listed with AST 330.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 333. Eastern Asia Landscape Art  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 250, or ARTH 270, or ARTH 290; or faculty consent.  
Description: This course explores the traditions of Chinese and Japanese landscape art and design from its beginning phase around the first century until early 20th century.  
Note: Cross-listed with AST 337.  
Note: May be used to satisfy the Period/Area 3 - Non-Western requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 339. Architecture and Gardens in China and Japan  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 250, or ARTH 270, or ARTH 290; or faculty consent.  
Description: This course provides an overview of the built environment in China and Japan, both traditional and modern.  
Note: May be used to satisfy the Period/Area 3 Non-Western requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 341. African Art: A Survey  
Term Typically Offered: Fall Only  
Prerequisite(s): ARTH 250, or ARTH 270, or ARTH 290; or faculty consent.  
Description: Examination of African art from the Paleolithic era to contemporary times. Relationship between classical Egyptian art and sub-Saharan art forms.  
Note: Cross-listed with PAS 381.  
Note: May be used to satisfy the Period/Area 3 - Non-Western requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 342. Selected Topics in Art History  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Junior standing or faculty consent.  
Description: Topic to be indicated in the Schedule of Courses.  
Note: May be taken with different subtitles to a maximum of 12 hours.  
Note: Satisfaction of curricular requirement determined by individual course content.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 343. African-American Art to 1920  
Term Typically Offered: Fall Only  
Prerequisite(s): ARTH 250, or ARTH 270, or ARTH 290; or faculty consent.  
Description: Relationship between African and African-American art from the slave era through the Harlem Renaissance in its aesthetic, social, cultural, and political contexts.  
Note: Cross-listed with PAS 310.  
Note: May be used to satisfy the Period/Area 2 - after 1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 344. African-American Art 1920 to Present  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 250, or ARTH 270, or ARTH 290; or faculty consent.  
Description: Relationship between art of the Harlem Renaissance, Black Art of the 1960's and contemporary art in its aesthetic, social, cultural and political contexts.  
Note: Cross-listed with PAS 311.  
Note: May be used to satisfy the Period/Area 2 - after 1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 345. History of Drawing and Prints  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.  
Description: Survey of history of graphic arts. Emphasis on ways of interpreting drawings and prints.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 347. Historic Interiors 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: The study of building interiors in relation to design, culture, history, furniture and decorative elements.
Note: This course is a requirement for completion of the BFA in Interior Design.
Note: May be used to satisfy an ARTH elective for the BA in Art History.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 349. Contemporary Trends in African-American Art - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: A survey of contemporary African American art since the 1960s into current trends today. Students will examine contemporary paintings, sculpture, fabric art, folk art, public art, and installation art. Emphasis will be on the social, cultural, spiritual and religious influences expressed in contemporary art.
Note: Cross-listed with PAS 308.
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication-WR.
Note: Credit may not be earned for this course and ARTH 549.
Note: May be used to satisfy the Period/Area 3 - Non-Western requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 351. Greek Art and Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: Survey of art and architecture of Ancient Greece from the Bronze Age through the Hellenistic period.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 353. Roman Art and Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: A survey of the art and architecture of Italy and the Roman world from the time of the Etruscans through late antiquity.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 355. byzantine Art & Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: An introduction to the world of the Byzantine Empire (6th-15th c.) through an examination of the art and architecture which attest to the creativity and vibrancy of this period.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 362. Early Medieval Art and Architecture - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: A survey of western Europe from the end of the Roman Empire through the Carolingian Renaissance (4th-10th c.).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 363. Late Medieval Art and Architecture - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: A survey of Romanesque and Gothic art and architecture.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 364. Byzantine Art & Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: An introduction to the world of the Byzantine Empire (6th-15th c.) through an examination of the art and architecture which attest to the creativity and vibrancy of this period.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 365. Mexican Art and Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 270 or faculty consent.
Description: A survey of Mexican art from the Conquest (1521) to present.
Note: May be used to satisfy the Period/Area 3 - Non-Western requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 366. Islamic Art and Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250 or faculty consent.
Description: An introduction to the medieval Islamic world (7th-16th c.) through an examination of the art and architecture which attest to the creative vibrancy of this period.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 371. Italian Renaissance Art I 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: Art and architecture of the Italian Renaissance during the fourteenth and fifteenth centuries.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 372. Italian Renaissance Art II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: Art and architecture of the Italian Renaissance during the sixteenth century.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 373. Northern Renaissance Art 3 Units
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: Art and architecture of Northern Europe in the fifteenth and sixteenth centuries.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 381. Baroque Art 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 270 or faculty consent.
Description: Italian, Spanish, Flemish, Dutch, and French painting and sculpture of the seventeenth century.
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 391. Nineteenth-Century Art 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 270 or faculty consent.
Description: Principal trends in Western painting and sculpture of the nineteenth century.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 393. Nineteenth-Century Architecture 3 Units
Prerequisite(s): ARTH 270 or faculty consent.
Description: Major movements and figures in American and European architecture from 1750 to World War I.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 394. Twentieth-Century Architecture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 270 or faculty consent.
Description: Architecture of the United States and Europe from World War I to the present; primary emphasis on major figures and developments before 1975.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 395. American Art I 3 Units
Term Typically Offered: Fall Odd Years
Prerequisite(s): ARTH 270 or faculty consent.
Description: A survey of the visual arts in the United States since 1900.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 396. American Art II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: A survey of painting, sculpture, architecture, and gardens in the United States from the 17th through the 19th centuries.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 397. History of Landscape Architecture 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: The garden as form and symbol; a general survey of the history of gardens from ancient to the present time, with major emphasis on Italian, French, and English gardens.
Note: Credit may not be received for both ARTH 398 and ARTH 598.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 398. History of Photography 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ARTH 250, or ARTH 270, or faculty consent.
Description: The aesthetic development of photography, with emphasis on U.S. photographers and contemporary issues relevant to the medium.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**ARTH 440. Cooperative Internship in Art History** 1-3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** See the College's requirements for cooperative internships in the undergraduate catalog.  
**Description:** An individually arranged course combining a work experience with a related academic or creative project. This work/learning arrangement must be overseen by an art history faculty member and by a designated employee of an organization.  
**Note:** Registering for ARTH 440 is contingent upon the student identifying an Art History faculty member who will sponsor and oversee their work.  
**Note:** May not be used to fulfill minimum requirements for the major in Art or Art History.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Term</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Note</th>
<th>Cross-listed with</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 501. Advanced History and Issues of Graphic Design</td>
<td>3</td>
<td>Units</td>
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<td>ARTH 521. Studies in Modern Art</td>
<td>3</td>
<td>Units</td>
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<tr>
<td>ARTH 522. History of Performance Art</td>
<td>3</td>
<td>Units</td>
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<tr>
<td>ARTH 524. Installation Art</td>
<td>3</td>
<td>Units</td>
<td>ARTH 270 and ARTH 325; or permission of instructor; or graduate standing.</td>
<td>Installation Art is an advanced exploratory seminar that investigates a contemporary art form as well as a thorny art-historical problem: the term &quot;installation&quot; now functions both as a loose descriptor for a myriad of contemporary artworks (having supplanted terms such as Assemblage and Environment) independent of medium and context, as well as a general and comprehensive art-historical genre-a circumstance that has its own compelling historical development. As a course, Installation Art is designed so that students can grapple with a central issue for contemporary art—the definition of a burgeoning critical term for art history. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ARTH 525. Representations of Trauma in the Visual Arts</td>
<td>3</td>
<td>Units</td>
<td>ARTH 270 and ARTH 325; or permission of instructor.</td>
<td>This seminar examines the changing relationships between trauma and its representation in the twentieth century. Beginning with the Holocaust, the course charts a trajectory from this most profound of collective traumas, to the refinement of clinical definitions of trauma (e.g., PTSD) in the wake of the Vietnam War, to the development of trauma studies in the humanities in the 1990s, to the recent &quot;pictorial turn&quot; within scholarship on trauma. This historical framework will be brought to bear upon the dynamics of how trauma and visuality have been approached by scientists, scholars, and artists.</td>
<td>Cross-listed with WGST 525.</td>
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<tr>
<td>ARTH 526. Studies in Contemporary Art</td>
<td>3</td>
<td>Units</td>
<td>ARTH 320, or ARTH 321, or ARTH 325 or or ARTH 326, or permission of the instructor.</td>
<td>An advanced-level seminar on special topics in contemporary art.</td>
<td>Cross-listed with AST 531.</td>
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</tr>
<tr>
<td>ARTH 531. Studies in Asian Art</td>
<td>3</td>
<td>Units</td>
<td>One 300-level course in Asian Art, or consent of instructor.</td>
<td>Selected topics that examine the development of art and architecture in the context of the social and cultural history of China and Japan.</td>
<td>Cross-listed with AST 531.</td>
<td></td>
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</tbody>
</table>

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 541. Theories & Methods of Art History  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Permission of the instructor.  
**Description:** Theories & Methods of Art History introduces students to various art historical and interdisciplinary theoretical perspectives and methodological approaches that have shaped the understanding, interpretation, and production of visual art and culture in the nineteenth century to the present. The course will explore these theories and methods as specific fields of inquiry (discourses as such) through the study of primary texts, secondary or applied texts, artists' writings and artworks.  
**Note:** May be used to satisfy an ARTH elective for the BA in Art History.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 542. Special Topics  
**Prerequisite(s):** Permission of the instructor.  
**Description:** Content to be indicated in schedule of courses.  
**Note:** May be taken with four different subtitles to a maximum of 12 hours.  
**Note:** Satisfaction of curricular requirement determined by individual course content.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 543. Independent Study  
**Prerequisite(s):** Minimum grade point average of 3.0 overall, and minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department, or consent of instructor.  
**Description:** Topic and content to be determined in consultation with instructor.  
**Note:** Satisfaction of curricular requirement determined by individual course content.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 544. Pan-African Art: Form and Content  
**Prerequisite(s):** Permission of the instructor.  
**Description:** Similarities and differences in African-American folk art, Caribbean folk art, and traditional African art.  
**Note:** Cross-listed with PAS 581.  
**Note:** May be used to satisfy the Period/Area 3 - Non-Western requirement.
ARTH 550. Art History Undergraduate Capstone Seminar - CUE  3 Units  Term Typically Offered: Occasionally Offered  
Prerequisite(s): Senior standing and BA candidacy; or faculty consent.  
Description: The Art History Program's undergraduate capstone seminar evaluates the ability of our majors to conduct original art historical research, frame their investigations in the form of a scholarly abstract, and present their ideas in a "conference paper" following the conventions appropriate to the discipline.  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 551. Studies in Ancient Art  3 Units  
Prerequisite(s): ARTH 351, or ARTH 353, or consent of instructor.  
Description: Selected topics in ancient art and architecture.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 552. Ancient Painting  3 Units  
Prerequisite(s): ARTH 351, or ARTH 353, or consent of instructor.  
Description: A study of mural painting from the ancient cultures of Egypt, the Aegean, Greece and Italy.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 553. Ancient Cities  3 Units  
Prerequisite(s): ARTH 351, or ARTH 353, or consent of instructor.  
Description: A study of the development of the city in the Mediterranean region from prehistoric times to the late Roman Empire.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 554. Studies in Medieval Art  3 Units  
Prerequisite(s): One 300-level course in Medieval art or architecture, or consent of instructor.  
Description: Studies in the art and architecture of the Middle Ages emphasizing a synthesis of the arts in a particular period or place.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 571. Studies in Renaissance Art  3 Units  
Prerequisite(s): One 300-level course in Renaissance art, or consent of instructor.  
Description: Study of a major phase of painting or sculpture, fifteenth or sixteenth century, in Italy or Northern Europe, with emphasis on sources and development of style.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 574. History of Drawing and Prints  3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): One 300-level course in Art History, or faculty consent.  
Description: Origin and development of woodcut, engraving, etching, aquatint, lithography, and serigraphy; major artists using these techniques.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 581. Studies in Baroque Art  3 Units  
Prerequisite(s): ARTH 381 or consent of instructor.  
Description: Study of one of the leading artists of the seventeenth and eighteenth centuries, such as Bernini, Borromini, Tiepolo, Velazquez, Rembrandt, Rubens, or Watteau.  
Note: May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 593. Studies in Modern Architecture  3 Units  
Prerequisite(s): One 300-level course in Modern architecture, or consent of instructor.  
Description: Principal forms and theories of urban and building design in relation to social forces in modern Europe and America.  
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 595. Studies in American Art  3 Units  
Prerequisite(s): One 300-level course in American art or architecture, or consent of instructor.  
Description: Studies in American architecture, city planning, decorative arts, painting, or sculpture, from colonial times to present.  
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 597. Studies in Photographic History  3 Units  
Prerequisite(s): Consent of instructor.  
Description: The aesthetic development of photography, with emphasis on U.S. photographers and contemporary issues relevant to the medium.  
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### Asian Studies (AST)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 270</td>
<td>Chinese Contributions to the World - AH, D2</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>An introduction to Chinese historical scientific contributions to the world, the reciprocal influences between Chinese and non-Chinese cultures, and Chinese ethnicity and identities within the global context.</td>
<td>Cross-listed with CHST 270 and M L 270.</td>
</tr>
<tr>
<td>AST 290</td>
<td>Survey of Asian Art - AH, D2</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>A survey of the major artistic traditions of Asia, primarily China, India, Japan, Korea, and Southeast Asia from Neolithic times to the turn of the century.</td>
<td>Cross-listed with ARTH 290.</td>
</tr>
<tr>
<td>AST 308</td>
<td>Geography of China</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>The primary objective of this course is to help students gain a better understanding of the geography of China's history, culture, and development. Analysis and interpretations of historical and contemporary issues in China from a geographical perspective.</td>
<td>Cross-listed with GEOG 308.</td>
</tr>
<tr>
<td>AST 310</td>
<td>Introduction to Asian Studies</td>
<td>3</td>
<td>Spring Only</td>
<td>An interdisciplinary overview of the geography, history, politics, societies, and cultures of China, India, and Japan.</td>
<td>Permission of instructor.</td>
</tr>
<tr>
<td>AST 314</td>
<td>Introduction to Japanese Society - D2, SB</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>This course introduces students to contemporary Japanese society through the lens of cultural anthropology. It examines a broad range of topics including demography, kinship and family, education, gender, minority and ethnicity, popular culture, and environmental issues.</td>
<td>Cross-listed with ANTH 314.</td>
</tr>
<tr>
<td>AST 316</td>
<td>Geography of South Asia</td>
<td>3</td>
<td></td>
<td>An analysis of the Indian subcontinent; emphasis on the physical and cultural setting, political disturbances, population problems, and economic development.</td>
<td>Cross-listed with GEOG 316.</td>
</tr>
</tbody>
</table>

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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AST 333. Contemporary China  
Term Typically Offered: Occasionally Offered  
Description: Discussion of China today, including popular culture, technology, mass media, folk theater, urban consumer culture, and state policy.  
Note: Cross-listed with CHST 333.  
Note: Conducted in English.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 335. China Through Film - AH, D2  
Term Typically Offered: Fall Only  
Description: Examination of 20th-century China through the critical study of selected examples of film.  
Note: Conducted in English.  
Note: Cross-listed with CHST 335.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 337. East Asia Landscape Art  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ARTH 250, ARTH 270, or ARTH 290, or consent of instructor.  
Description: The course explores the traditions of Chinese and Japanese landscape art and design from the beginning phase around the first century until early 20th century.  
Note: Cross-listed with ARTH 337.  
Note: May be used to satisfy the Period 3 - Non-Western requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 340. South Asian Religious Thought and Culture - AH, D2  
Term Typically Offered: Occasionally Offered  
Description: Study of Hinduism, Jainism, Buddhism, and Sikhism and their interrelationship with cultures of South Asia (India, Sri Lanka, and Pakistan).  
Note: Cross-listed with HUM 341.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 341. Ethnicity and Religion in China  
Term Typically Offered: Occasionally Offered  
Description: Study of the minority peoples such as Uigurs, Huis, Mongols and Tibetans, including their life styles, languages, art, and religion. Discussion of how Buddhism, Islam, Christianity and other religious beliefs spread in China, and their presence in China today.  
Note: Cross-listed with CHST 341.  
Note: Conducted in English.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 343. East Asian Religious Thought and Culture - AH, D2  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Sophomore standing.  
Description: Study of Confucianism, Taoism, Buddhism, and Shinto and their relationships with the cultures of China, Korea, and Japan.  
Note: Cross-listed with HUM 343.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 347. Global Capitalisms  
Term Typically Offered: Occasionally Offered  
Description: The course adopts an interdisciplinary approach to explore how capitalism is organized, practiced, or resisted. It seeks to understand capitalism as historically situated and culturally informed practices in different world regions.  
Note: Cross-listed with ANTH 347.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 351. Chinese Literature in Translation I - AH, D2  
Term Typically Offered: Occasionally Offered  
Description: Chinese literature from the beginning to 1911, discussion of principal genres, authors, and works. Conducted in English.  
Note: Cross-listed with CHST 351.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 356. Politics of East Asia  
Term Typically Offered: Fall Only  
Description: A survey of East Asian political systems with an emphasis on development, social and economic policies, political institutions and cultures.  
Note: Cross-listed with POLS 356.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
AST 367. Politics and Government of Southeast Asia  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: An introduction to the government and politics of Southeast Asia, revealing the historical context within which to locate the current security, political and economic challenges that the countries of the region face. Special focus will be given to the politics of Burma, Indonesia, Malaysia, the Philippines, Thailand, and Singapore as well as the impact of the ascendant China.  
Note: Cross-listed with POLS 367.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 390. Topics in Asian Studies-Humanities  
3 Units  
Term Typically Offered: Fall, Spring  
Description: Selected topics in Asian studies from a humanities perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 391. Topics in Asian Studies-Social Sciences  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: Selected topics in Asian Studies from a social science perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 396. History of India  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: Introduction to the history of the Indian subcontinent since the foundation of the Indus Valley civilization. Role of political, intellectual, social and economic change in the creation of modern India, Pakistan and Bangladesh.  
Note: Cross-listed with HIST 396.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 397. Traditional China  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: This course studies the political, social and economic history of China from Shang dynasty to the intrusion of the West (1700 BC-1800 AD)  
Note: Cross-listed with HIST 397.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 398. Modern China  
3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): HIST 101 or HIST 102.  
Description: From Confucianism to Communism in China: society, economy and politics, 1600 to the present.  
Note: Cross-listed with HIST 398.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 399. Modern Japan  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: This course reviews Japanese history from the Yamato state to the collapse of the bubble economy (500-1900s). We first examine how Japanese native culture and government interplayed with imported elements from China and Korea, forming its own distinctive political structure and society in the Tokugawa era (1600-1688). We focus on Japan's modern experiences-state-led nationalism and modernization since Meiji restoration, investigating how Western influence transformed Japanese state, society, culture, and values. We explore the origin, development, and the defeat of Japanese imperialism and militarism, analyzing how race, gender, and nationalities were constructed and manipulated within Japanese empire in the wartime era (1931-45). Finally we examine postwar Japanese democracy and economic prosperity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 491. Independent Study  
1-3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Minimum grade point average of 3.0 overall, minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 495. Senior Seminar - CUE  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Completed 90 hours, Asian studies majors only, and consent of instructor.  
Description: Will examine issues related to area studies methods, empirical knowledge of Asian countries, and Asian language skills.  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 500. Topics in Asian Studies-Humanities  
3 Units  
Description: Selected topics in Asian studies from a humanities perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 501. Topics in Asian Studies-Social Sciences  
3 Units  
Description: Selected topics in Asian studies from a social science perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
AST 517. Anthropology of China 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Graduate standing or permission of the instructor.
Description: It is widely acknowledged that China is a rising power in the global political economy. However, with the coexistence of tradition and modernity, the nature of Chinese culture and society remains heavily debated. This course explores a wide range of topics and issues that constitute the socio-cultural fabric of contemporary mainstream Chinese society. These topics include, but are not limited to, family, gender, ethnicity, religion, education, politics, and economics. Our investigation will focus on two broad themes: 1) the unity and diversity of Chinese society, and 2) the continuity and change that took place from late traditional China to the present. The goal of this course includes learning various aspects of Chinese culture and society, studying diverse anthropological approaches to the study of China, and examining the political dimensions of representation.
Note: Cross-listed with ANTH 517.
Note: Students may not receive credit for this course and ANTH 317 or AST 317.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 531. Studies in Asian Art 3 Units
Prerequisite(s): One 300-level course in Asian art, or consent of instructor.
Description: Select topics that examine the development of art and architecture in the context of social and cultural history of China and Japan.
Note: Cross-listed with ARTH 531.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 598. Nationalism and Modernity in East Asia 3 Units
Description: The creation of modern nation-states in China, Japan, and Korea from 1840 to 1945.
Note: Cross-listed with HIST 598.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Biochemistry (BIOC)

BIOC 545. Biochemistry I 3 Units
Description: Chemistry of amino acids, peptides, proteins, nucleotides and nucleic acids; methods of analysis and laboratory synthesis; nucleotides; RNA, DNA and protein biosynthesis.
Note: Credit may not be earned in both BIOC 545 and BIOC 645.
Note: Credit may not be applied toward an advanced degree in Chemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 547. Biochemistry II 3 Units
Prerequisite(s): BIOC 545.
Description: Cellular metabolism of carbohydrates, lipids, amino acids and biomembrane phenomena, enzyme properties, kinetics, and control mechanisms; ligand binding.
Note: Credit may not be earned in both BIOC 547 and BIOC 647.
Note: Credit may not be applied toward an advanced degree in Chemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Bioengineering (BE)

BE 101. Introduction to Bioengineering 1 Unit
Term Typically Offered: Spring Only
Description: Survey of the field of bioengineering and introduction to art/practice of bioengineering, through a series of creative, hands-on design and reverse engineering activities. Includes problem definition/solving, decision making and team skill building.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 288. Bioengineering Co-op Education Seminar 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201; BE 310 (or concurrent) and BE 360 (or concurrent).
Description: Discussion of rules and regulations governing cooperative internship experience and instruction in job interviewing techniques, resume preparation and in preparation of co-op report. Required prerequisite for the first cooperative internship.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 289. Bioengineering Co-op Education I 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BE 288.
Description: First cooperative education work term in an area directly related to the field of specialization of their degree program. Required for Professional School of Engineering students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 310. Biotransport Phenomena 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGR 205, ME 206, and ME 251.
Description: Introduction to fundamental concepts of momentum, heat, and mass transport with applications to biological and medical engineering science and design. Properties of biofluids. Conservation equations in integral and differential forms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BE 322. Circuits and Devices for Bioengineers
Term Typically Offered: Summer Only
Prerequisite(s): PHYS 299 and ENGR 201; BE Students only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 340. Computational Methodologies in Bioengineering
Term Typically Offered: Summer Only
Prerequisite(s): ENGR 205.
Description: The main goal of the course is to introduce students to high-performance computing tools which are crucial to many bioengineering and scientific applications and equip students with basic knowledge of state-of-the-art computing tools available.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 354. Anatomy and Physiology
Term Typically Offered: Spring Only
Prerequisite(s): BIOC 240.
Description: The purpose of this course is to cover the basic structure and function of the major systems of the human body.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 359. Cell and Molecular Biology for Bioengineers
Term Typically Offered: Spring Only
Prerequisite(s): BIOC 240.
Description: This course examines the fundamental principles of cell and molecular biology in humans.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 360. Biomechanics Principles
Term Typically Offered: Spring Only
Prerequisite(s): ENGR 205 and CEE 205.
Description: Introduction to the mechanical behavior of biological tissues and systems. Methods for the analysis of rigid body and deformational mechanics applied to biological tissues including bone, muscle, and connective tissues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 389. Bioengineering Co-op Education II
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BE 289.
Description: Second cooperative education work term in an area directly related to the field of specialization of their degree program. Required for Professional School of Engineering students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 405. Practicum in Bioengineering Education
Term Typically Offered: Spring Only
Prerequisite(s): BE 310 and BE 360 and consent of instructor.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes field experience as an undergraduate teaching assistant. Permission to enroll required. May be repeated for a maximum of 3 credit hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 420. Biosystems & Signals
Term Typically Offered: Spring Only
Prerequisite(s): BE 340.
Description: This course covers linear systems theory, including convolution, Fourier, Laplace, and Z-transforms. The emphasis is on understanding the underlying mathematics in a practical sense.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 423. Bioengineering Measurements Laboratory
Term Typically Offered: Spring Only
Prerequisite(s): BE 322.
Description: Laboratory to illustrate basic principles taught in Circuits and Devices for Bioengineers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 430. Biosystems Controls
Term Typically Offered: Fall Only
Prerequisite(s): BE 322, ENGR 330 and BE 420.
Description: Classical approach to analyze and design linear and nonlinear control systems, with emphasis on nonlinearity of physiological control systems, e.g. neuromusculoskeletal, cardiovascular, thermal and mass transfer systems of the body.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 450. Biomaterials & Biocompatibility
Term Typically Offered: Summer Only
Prerequisite(s): CHEM 341, ME 251 and BE 360.
Description: Introduces biomaterials and the clinical relevance of biomaterial performance. The course will cover polymer synthesis, characterization, mechanical testing, surface modification and biocompatibility issues, e.g. protein adsorption, immune response, and sterilization.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 453. Introduction to Molecular Bioengineering
Term Typically Offered: Fall Only
Prerequisite(s): CHEM 341 and BE 359.
Description: Demonstrate how molecules are used as building blocks to engineer surfaces and materials with specific attributes/function. Introduces biomimetic design principles for biomedical materials and devices to control performance/function of materials.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### BE 460. Biomechanics of Tissues and Organs
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** BE 360 and BE 354.
- **Description:** Provide students with introductory materials for various interdisciplinary fields in biomechanics. The topics include orthopaedic biomechanics, musculoskeletal biomechanics and cardiovascular biomechanics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 480. Biomedical Device Design
- **Term Typically Offered:** Spring Only
- **Prerequisite(s):** BE 423 (or concurrent) and BE 450 (or concurrent).
- **Description:** Medical device design for surgery, patient care and patient monitoring. Emphasizes design criteria and process, human factors, patient care, bench-top testing, safety, FDA regulation, market readiness and legal liability.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 489. Bioengineering Co-op Education III
- **Grading Basis:** Pass/Fail
- **Term Typically Offered:** Fall, Spring, Summer
- **Prerequisite(s):** BE 389.
- **Description:** Third cooperative education work term in an area directly related to the field of specialization of their degree program. Required for Professional School of Engineering students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 491. Economics, Ethics & FDA Regulations
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** BE 423 and BE 450; Senior standing in Bio-engineering.
- **Corequisite(s):** BE 497.
- **Description:** Applies methods of engineering economic analysis, ethics, and FDA regulation processes. Methods to identify, articulate and resolve ethical dilemmas intrinsic to bioengineering. Practical "hands on" experiences in the application of economic concepts and FDA regulations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 497. Bioengineering Design Project - CUE
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** BE 354 and Senior standing in bio-engineering.
- **Corequisite(s):** BE 491.
- **Description:** Team oriented design of a biomedical/biological mechanism, system or process satisfying a set of open-ended requirements. Written reports and oral presentations are required.

**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 500. Special Topics in Bioengineering
- **Term Typically Offered:** Fall, Spring, Summer
- **Description:** This course will be devoted to topics that usually are not treated in detail in the general curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 522. Biomedical Acoustics
- **Term Typically Offered:** Spring Only
- **Prerequisite(s):** BE 420.
- **Description:** An introduction to the fundamental principles of physical acoustics with an emphasis on biomedical applications. Major concepts covered include (i) acoustic wave physics, (ii) transducers, and (iii) ultrasound imaging.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 540. Machine Learning in Medicine
- **Term Typically Offered:** Spring Only
- **Prerequisite(s):** BE 420.
- **Description:** Topics: 1) fundamentals of medical data, 2) application of machine learning models & algorithms to medicine, 3) learning from data & classification of disorders, and 4) overview of health data, collection with sensors, body area networks, brain Image data and other publicly available medical applications data. Students will learn about machine learning applications to real world medical data through examples and reading papers. Students are expected to work on a team project and write technical reports.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 551. Gene and Drug Delivery
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** BE 354 and BE 450, or graduate standing.
- **Description:** This course covers advanced topics of gene and drug delivery, including the physiological barriers and challenges to delivery, biomaterials used in delivery, considerations for specificity of drug/gene targeting, nanoscale delivery vehicles, the delivery of biologies and vaccines, and intracellular delivery. In addition, this course integrates literature and discussion regarding specific platform design and delivery considerations against cancer, viral, and bacterial applications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 551. Gene and Drug Delivery
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** BE 354 and BE 450, or graduate standing.
- **Description:** This course covers advanced topics of gene and drug delivery, including the physiological barriers and challenges to delivery, biomaterials used in delivery, considerations for specificity of drug/gene targeting, nanoscale delivery vehicles, the delivery of biologies and vaccines, and intracellular delivery. In addition, this course integrates literature and discussion regarding specific platform design and delivery considerations against cancer, viral, and bacterial applications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### BE 557. Introduction to Tissue Engineering
- **Term Typically Offered:** Spring Only
- **Prerequisite(s):** CHEM 341, BE 354, BE 359, and BE 450.
- **Description:** Design, development and clinical application of tissue engineered components, including blood vessels, bone, cartilage, pancreas, liver and skin, for use in the human body.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BE 553. Nanoscale Bioengineering: Application and Methodology of Nanobiomaterials in Bioengineering  3 Units  
Prerequisite(s): BE 450 or BE 453 or permission of department chair.  
Description: An introduction to the fundamental principles of nanoengineering with a focus on (i) synthetic methodologies of tailored nanobiomaterials (physical, chemical and electrochemical), (ii) nanobiomaterial characterization using advanced analytical, microscopic and spectroscopic techniques, and (iii) therapeutic and diagnostic applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BE 581. Advanced Computer Aided Design and Manufacturing for Bioengineers  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): BE 340 or by permission of Department Chair.  
Description: An introduction to the engineering design and manufacturing processes for bioengineering applications with an emphasis on the use of modern computer-based analysis, design and presentation tools as well as manufacturing techniques such as casting, machining, forming and assembly for polymer and metal-based materials.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BE 593. Independent Study in Bioengineering  1-4 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Faculty consent.  
Description: A theoretical or experimental investigation of a problem area related to Bioengineering.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

Biology (BIOL)  

BIOL 102. Biology: Current Issues and Applications - S  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: Selected topics from the biological sciences that focus on high-profile issues in biological sciences and their socio-scientific applications.  
Note: May fulfill general education natural science requirement but does not count toward biology major or minor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BIOL 244. Principles of Biology Laboratory - SL  2 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Successful completion of BIOL 240 and completion of, or concurrent enrollment in, BIOL 242; or completion of BIOL 242 and completion of, or concurrent enrollment in, BIOL 240.  
Description: A comprehensive laboratory in Biology involving experiments at the cellular/genetics level through organismic diversity. An emphasis is placed on critical analysis of scientific data through application of the scientific method.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BIOL 257. Introduction to Microbiology - S  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): BIOL 102 or BIOL 240, or equivalents; and CHEM 105 or CHEM 201 (CHEM 101 accepted for Dental Hygiene students only).  
Description: Survey of microorganisms including structure-function relationships, growth and its control, metabolism and genetics. Diversity will be discussed with emphasis on infectious diseases, epidemiology, and basic immunology.  
Note: Does not count towards biology major or minor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BIOL 203. Scientific Information Literacy and Communication - OC  3 Units  
Term Typically Offered: Spring Only  
Description: To improve oral communication skills that transfer across disciplines; to fulfill a general education oral communication requirement with a course that has science-intensive content; to improve student skills in critically assessing scientific claims; and to introduce students early in their programs to work of potential research mentors.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BIOL 240. Unity of Life - S  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ACT score of 24 or better on the sciences section; completion with a passing grade or enrollment in BIOL 102 (or department approved equivalent) in prior semester; Biology placement test score of 10 or better; or completion with a passing grade or enrollment in BIOL 242 in prior semester.  
Description: Basic biological principles; macromolecules, biology of cells, metabolism, genetics, and evolution.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BIOL 242. Diversity of Life  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ACT score of 24 or better on the sciences section; completion with a passing grade or enrollment in BIOL 102 (or department approved equivalent) in prior semester; Biology placement test score of 10 or better; or completion with a passing grade or enrollment in BIOL 240 in prior semester.  
Description: Taxonomy and classification, form and function of monerans, fungi, protists, plants and animals; survey of ecology.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

BIOL 104. Laboratory for Biology: Current Issues and Applications - SL  1 Unit  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Completion of or concurrent enrollment in BIOL 102.  
Description: Hands-on laboratory experience for students not majoring in the sciences. Labs are designed to develop skills in scientific methodology, observation and critical thinking.  
Note: Does not count toward biology major or minor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 258. Introduction to Microbiology Laboratory - SL 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of or concurrent enrollment in BIOL 257.
Description: The introductory microbiology laboratory teaches students basic microbiological techniques that are necessary to study and safely handle microorganisms and their viruses. Because this course relies on participation, attendance will be included in the evaluation.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 260. Human Anatomy & Physiology I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 102 or BIOL 240 or equivalent with a grade of C or better and completion of CHEM 101 or CHEM 105 with a grade of C or better; restricted to students in the Nursing and Dental Hygiene programs.
Description: A general introduction to structure and function of the human body. Basic concepts related to anatomical terminology, cells, tissues, and integumentary, the skeletal, muscular, nervous, and endocrine systems are covered. Interrelationships of organ systems are also emphasized.
Note: This course is intended for students majoring in nursing or dental hygiene.
Note: Does not count toward a biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 261. Human Anatomy & Physiology II 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 260 with a grade of C or better; restricted to students in the Nursing and Dental Hygiene programs.
Description: A general introduction to structure and function of the human body. Basic concepts related to anatomical terminology, cells, tissues, and integumentary, the skeletal, muscular, nervous, and endocrine systems are covered. Interrelationships of organ systems are also emphasized.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 262. Human Anatomy & Physiology Lab 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of BIOL 260 with a grade of C or better and concurrent enrollment in BIOL 261.
Description: A study and correlation between the anatomy and physiology of selected organ systems.
Note: Does not count towards biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 263. Environmental Biology 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A study of the biological principles of environmental effects on living organisms; emphasis on ecological relationships of humans, including resource exploitation, pollution, environmental degradation, and human behavior.
Note: Does not count toward biology major or minor.
Note: Students who have already received credit for BIOL 363 may not receive credit for this course.
Note: Cross-listed with HSS 263.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 300. Plant Biology - WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 240 and BIOL 242.
Description: This course examines the biology of plants and other organisms with cell walls (including bacteria, fungi, protists, and algae). These distantly related organisms include primary producers that energize the biosphere, decomposers that recycle nutrients and economic species that provide most of humanity’s food, fiber and medicine. As part of the course content, students compose an original manuscript based on in-class experiments. This manuscript includes a literature review. Students submit this manuscript as a draft, receive comments, and then revise their final version based on those comments.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 304. Plant Taxonomy & Ecology - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242 and BIOL 244.
Description: Introduction to the principles and methods of identifying, naming, and classifying plants. Focus on ecologically significant plants of North America and Kentucky, and discussion of the importance of specific species in maintaining ecosystem structure and function.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 308. Vertebrate Zoology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 240, BIOL 242, and BIOL 244.
Description: Vertebrate Zoology explores the anatomy, ecology, and behavior of vertebrates from an evolutionary perspective. Laboratory work centers on anatomy and includes species identification, data collection, analysis, and presentation activities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### BIOL 310. Animal Behavior
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** BIOL 240, BIOL 242 and BIOL 244.  
**Description:** Survey of the field of animal behavior. Topics include communication, learning, mate choice, fighting and aggression, and mating systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<tr>
<th>Course Code</th>
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<tr>
<td>BIOL 329. Cellular and Molecular Biology</td>
<td>3 Units</td>
<td>Fall, Spring, Summer</td>
<td>BIOL 329</td>
<td>Processes at the molecular and cellular levels integrated with the science of biology and biodiversity. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>BIOL 330. Genetics and Molecular Biology</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>BIOL 329</td>
<td>Genetics presented from a Mendelian to a molecular point of view. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>BIOL 331. Genetics and Molecular Biology: Laboratory</td>
<td>2 Units</td>
<td>Fall, Spring</td>
<td>BIOL 330 (or concurrent)</td>
<td>The laboratory portion of BIOL 330 with exercises in genetics, cellular, and molecular biology. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>BIOL 347. Comparative Vertebrate Anatomy</td>
<td>4 Units</td>
<td>Spring Only</td>
<td>BIOL 240, BIOL 242, and BIOL 244</td>
<td>Phylogeny and comparative morphology of classes of vertebrates; structure and organ systems of lamprey, shark, and cat. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>BIOL 350. Biostatistics</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>MATH 180 or MATH 205</td>
<td>A survey course of statistical procedures commonly used in the life sciences. It is taught at an introductory level and will focus on the application of statistical procedures to data. <strong>Note:</strong> This lecture course is supplemented with a separate recitation section.</td>
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For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
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<tr>
<td>BIOL 382</td>
<td>Entomology</td>
<td>3 Units</td>
<td>Occasionally Offered</td>
<td>BIOL 363.</td>
<td><strong>Description:</strong> Examination of the morphology, physiology, behavior, evolution and ecology of the major groups of insects. A collection of common insect families is required. The laboratory will include observations on live and preserved animals and possible field trips. Students will learn to: 1) use terms and concepts that describe the diversity of insects, 2) compare and contrast major insect groups with respect to structure and function, and 3) collect and prepare museum-quality specimens for scientific study. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 388</td>
<td>Biology Honors Seminar</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Permission of instructor.</td>
<td><strong>Description:</strong> Completion of BIOL 240 and BIOL 242 with a minimum grade of B. A 1-credit seminar course to introduce sophomores to undergraduate research opportunities at UofL, with the purpose of finding a laboratory in which to do an honors thesis project by junior year. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 389</td>
<td>Undergraduate Seminar</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Permission of instructor.</td>
<td><strong>Description:</strong> Undergraduate seminar in varied aspects of biology; subject to be announced in the schedule of courses. <strong>Note:</strong> No more than 2 hours of BIOL 389 may be counted toward the major in biology. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<td>BIOL 390</td>
<td>Special Topics</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>BIOL core or faculty consent.</td>
<td><strong>Description:</strong> Special topics in biology. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 391</td>
<td>Special Topics in Biology - WR</td>
<td>1-4 Units</td>
<td>Occasionally Offered</td>
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<td><strong>Description:</strong> Topics to be indicated in the Schedule of Courses. <strong>Note:</strong> Approved for the Arts and Sciences upper-level requirement in written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 392</td>
<td>Microbes and Core Concepts in Ecology and Evolution - WR</td>
<td>3 Units</td>
<td>Occasionally Offered</td>
<td>BIOL 357, BIOL 363, or BIOL 409.</td>
<td><strong>Prerequisite(s):</strong> BIOL 357, BIOL 363, or BIOL 409. <strong>Description:</strong> Core concepts in ecology and evolution using microbes as primary examples. Students will read primary scientific literature and write scientific reviews of the literature in order to enhance their understanding of these concepts. <strong>Note:</strong> Approved for the Arts and Sciences upper-level requirement for written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 395</td>
<td>Basic Pharmacology</td>
<td>3 Units</td>
<td>Spring Only</td>
<td>BIOL 260, BIOL 261, BIOL 465, or consent of instructor.</td>
<td><strong>Prerequisite(s):</strong> BIOL 260, BIOL 261, BIOL 465, or consent of instructor. <strong>Description:</strong> Students will gain knowledge of the properties and actions of pharmacological agents. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 396</td>
<td>Preview to Dentistry</td>
<td>3 Units</td>
<td>Spring Only</td>
<td>BIOL 329 and BIOL 330 or equivalent, and consent of instructor.</td>
<td><strong>Prerequisite(s):</strong> BIOL 329 or equivalent, and consent of instructor. <strong>Description:</strong> This course is designed for pre-dental students and students considering dentistry as a career. The purpose of the course is to expose pre-dental students to the art, science, and practice of dentistry. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 400</td>
<td>Histology</td>
<td>4 Units</td>
<td>Fall Only</td>
<td>BIOL 329 or consent of instructor.</td>
<td><strong>Prerequisite(s):</strong> BIOL 329 or consent of instructor. <strong>Description:</strong> The microscopic anatomy and function of vertebrate tissues and organs. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 401</td>
<td>Advanced Ecology</td>
<td>3 Units</td>
<td>Occasionally Offered</td>
<td>BIOL 363.</td>
<td><strong>Prerequisite(s):</strong> BIOL 363. <strong>Description:</strong> Major concepts in evolutionary ecology. Theoretical and experimental studies of adaptation, population growth and regulation, competition, predation, diversity, life histories, and ecosystems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 402</td>
<td>Advanced Ecology Lab</td>
<td>2 Units</td>
<td>Occasionally Offered</td>
<td>BIOL 401 (or concurrently).</td>
<td><strong>Prerequisite(s):</strong> BIOL 401 (or concurrently). <strong>Description:</strong> Field and laboratory experiments to investigate ecological principles. Discussion of research and practice of basic biostatistics and experimental design. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
</tbody>
</table>
BIOL 404. Undergraduate Research - CUE 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty and chair consent.
Description: Undergraduate Research in a select subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 405. Undergraduate Research 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty and chair consent.
Description: Undergraduate Research in a select subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 406. Undergraduate Research (WR) - CUE, WR 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty and chair consent; minimum cumulative grade point average of 3.0 and completion of biology core.
Description: Undergraduate Research in a select subject area with a student-selected faculty member.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 409. Evolutionary Biology - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 363 or consent of instructor.
Description: A review of basic evolutionary principles and processes including speciation, natural selection, sexual selection, extinction, heritability, genetic drift, inbreeding, outbreeding, heterochrony and Darwinian medicine.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 410. Misuse of Biology in Film and Pop Culture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329, BIOL 330, and CHEM 341.
Description: This course will examine how biology and themes in the biological sciences are portrayed in films and popular culture with a mind towards evaluating whether the science is appropriate or being misused. In the process of these analyses, we will explore such questions as: What is science and what is not? Also what is pseudo-science or bad science?

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 415. Biology of the Cell - CUE, WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): BIOL 329 and BIOL 330.
Description: Cellular, molecular, and biochemical aspects of cellular function.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 416. Biotechnology Methods - WR 4 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 330, BIOL 331, and CHEM 344; and consent of instructor.
Description: Designed for Biology and Chemistry students concentrating in Genetics/Subcellular. Provides hands-on experience with basic methods used in molecular biology, including but not limited to, agarose and polyacrylamide gel electrophoresis of nucleic acids and proteins, restriction digestion of DNA, Southern and Northern hybridization, PCR, DNA sequencing, and transformation of various cell types (including bacteria, fungi, plants, insects and vertebrates).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 430. Undergraduate Teaching Assistant - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330 and BIOL 331; CHEM 341; minimum Junior standing; Biology major; 3.25 GPA in major; permission of instructor.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes a field experience as an undergraduate teaching assistant. 25.5 GPA in major to be eligible.
Note: Majors only; permission to enroll required, minimum cumulative 3.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 435. Chemical Ecology - WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): BIOL 240, BIOL 242, and CHEM 201.
Description: This course will explore the remarkable world of chemical ecology. Where ecological outcomes between or among individuals are influenced or determined directly or indirectly by chemicals produced by individuals. A key focus will be the chemical ecology of plants. Though we will also explore chemical ecology in animals as well. Considerable ecological information is derived from chemicals produced by organisms both to other members of the same species or to a different species, and affect both natural and sexual selection. We will use an interactive discussion/seminar-style to interrogate the primary literature for current knowledge of how chemical cues influence a diverse array of ecological interactions. From the African savannas to galling insects in our own backyard. Students will have flexibility to choose their own research topics to pursue focused critical thinking and hypothesis generation. Discussions will span a range of disciplines including genetics, molecular biology, biochemistry, natural products, ecology, and evolution. As such, this course is intended for students who have some prior knowledge of ecology and/or biochemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 440. Global Change Ecology - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 363, GEOS 363, or GEOS 365; or permission of instructor.
Description: Human causes of global-scale changes in climate, air and water resources, and biodiversity, and impacts on people; approaches to addressing these problems that promote sustainable societies.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 443. Developmental Biology - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329 and BIOL 330.
Description: Developmental biology approached from a biochemical, cellular, and anatomical perspective with emphasis on organ systems.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 445. Principles of Physiology 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): BIOL 329 or consent of instructor.
Description: A general study of the functions of organ systems in vertebrates.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 480. Introduction to Immunology - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242, BIOL 329 and BIOL 330; CHEM 201 and CHEM 202 or their equivalent.
Description: Lectures will present the basic principles of immunology, with an emphasis on reading and understanding primary literature. Topics include cells and organs of the immune system, the innate and adaptive response, effector molecules, and diseases of the immune system.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 485. Microbial Physiology - CUE, WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 357 or BIOL 540; or permission of the instructor.
Description: An explanation of microbial cell biology and the processes, reactions, and energetics that support microbial life in a variety of circumstances. Includes discussions of how to modify those metabolic properties to meet new demands and conditions. A general understanding of the fundamental concepts of organic chemistry is strongly recommended.
Note: Approved for the Arts and Sciences upper-level requirement in communications (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 490. Biology Internship - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Junior standing, 2.5 GPA, and consent of instructor.
Description: Practical work experience in biological fields.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 501. Independent Study 1-3 Units
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 502. Independent Study 1-3 Units
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 504. Independent Study - WR 1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of the Biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 510. Behavioral Ecology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 363.
Description: Evolution of behavioral adaptations for survival and reproduction; topics will include foraging, aggression, mate choice, mating strategies, and sociality.
Note: Credit may not be earned for both BIOL 510 and BIOL 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 511. Behavioral Endocrinology - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 465.
Description: Interactions of hormones, brain, behavior.
Note: Credit may not be earned in both BIOL 511 and BIOL 611.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Cross-listed with BIOL 611.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 512. Endocrinology 3 Units
Prerequisite(s): BIOL 465.
Description: Chemical regulation in animals.
Note: Credit may not be earned in both BIOL 512 and BIOL 612.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 514. Ornithology 3 Units
Prerequisite(s): BIOL 242 and BIOL 244, or consent of instructor.
Description: Evolution, morphology, diversity, ecology, and behavior of birds. Lab stresses field identification of birds.
Note: Credit may not be earned in both BIOL 514 and BIOL 614.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 515. Environmental Physiology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 465 or consent of instructor.
Description: Comparative biological and biochemical mechanisms of adaptation to ecological and environmental extremes in eukaryotic organisms.
Note: Credit may not be earned in both BIOL 515 and BIOL 615.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 519. Ichthyology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 363.
Description: Introduction to anatomy, physiology, ecology, distribution, economic importance, and classification of major groups and representative local species of fish.
Note: Credit may not be earned in both BIOL 519 and BIOL 619.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 522. Aquatic Ecology 4 Units
Prerequisite(s): BIOL 363.
Description: Ecological processes in aquatic environments with primary emphasis on lakes and reservoirs.
Note: Credit may not be earned in both BIOL 522 and BIOL 622.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 540. Intermediary Metabolism 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329 and CHEM 342.
Description: An advanced study of metabolic pathways including synthesis of macromolecules (proteins, nucleic acids, lipids, carbohydrates), mechanisms of metabolic control and utilization of metabolic intermediates.
Note: Credit may not be earned in both BIOL 540 and BIOL 640.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 541. Medicinal Plant Biochemistry - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 540, CHEM 445, CHEM 545, or BIOL 545.
Description: A detailed study of biosynthesis and bioactivity of specialized plant metabolites (secondary metabolites). Topics will include aspects of general plant metabolism as well as specialized metabolism pathways (alkaloids, terpenes and phenolics) and will include a survey of approaches as they relate to discovery of bioactive plant metabolites and a review of known plant metabolites used to treat human diseases/disorders.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 542. Gene Structure and Function - WR 3 Units
Prerequisite(s): BIOL 330 or equivalent, or consent of instructor.
Description: Advanced topics in genetics of prokaryotes and eukaryotes, including chromosome structure and function, and gene regulation.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both BIOL 542 and BIOL 642.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 548. Experimental Design and Analysis - CUE 3 Units
Prerequisite(s): BIOL 350 or BIOL 651.
Description: Move principles of sound experimental design, analysis and presentation from recognition to active vocabulary. Students completing the course can serve as statistical consultants for moderately complex statistical designs.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 552. Evolutionary Medicine 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242, BIOL 372, or BIOL 409, or equivalents.
Description: In-depth analyses at the interface of evolutionary biology and the health sciences using readings from the primary literature. Format involves lectures, discussion, and a library-based research project.
Note: Credit may not be earned in both BIOL 552 and BIOL 652.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 553. Chronic Disease Biology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329 and BIOL 372.
Description: The course will cover the biological bases of chronic disease, with an emphasis on the mechanisms of disease causation and the evolution of these mechanisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 555. Microbial Ecology 3 Units
Prerequisite(s): BIOL 357, or BIOL 485, or consent of instructor.
Description: Interrelationships between microorganisms and their environments.
Note: Credit may not be earned in both BIOL 555 and BIOL 655.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 560. Ecology of Urban and Suburban Landscapes 3 Units
Prerequisite(s): BIOL 363 or GEOS 365.
Description: Effects of cities and suburban sprawl on air and water chemistry, microclimate, fragmented landscapes, and responses of biotic and human communities to these conditions that degrade or promote urban resilience, adaptation and sustainability.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 562. Ecosystems Ecology 3 Units
Prerequisite(s): BIOL 363; an advanced ecology course recommended.
Description: The transformations of matter and energy that link plant, animal and geochemical cycles. Implications for resource management also discussed.
Note: Credit may not be earned in both BIOL 562 and BIOL 662.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 563. Population and Community Ecology 3 Units
Prerequisite(s): BIOL 363.
Description: Introduction to population dynamics and species interactions in aquatic and terrestrial ecosystems. Review of underlying ecological theory and its applications for conserving biodiversity.
Note: Credit may not be earned in both BIOL 563 and BIOL 663.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 567. Conservation Biology 3 Units
Prerequisite(s): BIOL 363 or permission of instructor.
Description: This course provides an overview of theory and practice of conservation. Topics include biodiversity, habitat loss, the effects of habitat changes on populations, and the design and establishment of reserves. Among other things, students will learn: 1) key terms and concepts related to biodiversity, 2) significant threats to biodiversity and efforts to mitigate them, and 3) practical and socioeconomic elements of conservation biology.
Note: Credit may not be earned in both BIOL 567 and BIOL 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 569. Evolution 3 Units
Prerequisite(s): BIOL 363.
Description: Offers a comprehensive overview of evolution and provides students with a review of issues that make up this critical discipline.
Note: Credit may not be earned in both BIOL 569 and BIOL 669.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 571. Selected Topics 3 Units
Term Typically Offered: Occasionally Offered
Description: Contents to be indicated in schedule of courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 572. Selected Topics-Laboratory 1-4 Units
Description: Contents to be indicated in schedule of courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 591. Biology for Teachers I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Experience in teaching biology or biological principles in elementary, middle or secondary school.
Description: Teaching pre-college biology with emphasis on curriculum content, laboratory procedures, and process skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 593. Experimental Cell Biology for Teachers 3 Units
Prerequisite(s): BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330, and BIOL 331 or equivalent; or consent of instructor
Description: Lecture and lab activities focused on inquiry-based investigations at the cellular level suitable for secondary school classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 594. Experimental Botany for Teachers 3 Units
Prerequisite(s): BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330, and BIOL 331 or equivalent; or consent of instructor
Description: This course is designed for pre-service and classroom teachers of the life sciences from elementary through high school. To increase teachers’ abilities to teach sciences, especially botany, using inquiry-oriented strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Business (BUS)

BUS 101. The Logic of Business 3 Units
Term Typically Offered: Fall, Spring
Description: The course covers the basics of learning to think critically in a discipline, the basics of the business environment and the functional areas of business with a focus on applying critical thinking skills, and how the functional areas of business are integrated in a business organization.
Note: This course is restricted to students admitted to the College of Business after Spring 2011.
Note: This course may not be used as an elective by College of Business students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 201. Career Development 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to College of Business, Sophomore standing, or permission of instructor.
Description: Introduces business students to career development, including the importance of career planning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BUS 301. Business Communication  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of Written Communication and Oral Communication General Education requirements.
Description: Students will learn to tailor messages to specific receivers in order to meet business goals. They will develop their ability to be professional, clear, concise, evidence-driven, and persuasive in communication interactions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 399. Co-op in Business  1-3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Permission of instructor; students must be business majors.
Description: A new workplace experience in an approved position which offers a progression of learning at a level appropriate for practical application of classroom theory and tools.
Note: Application to the co-op program and completion of orientation processes should be accomplished prior to employment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 431. Honors Seminar in Business  3 Units
Prerequisite(s): Permission of business honors coordinator.
Description: Intersciplinary honors seminar. Topics vary. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 441. Honors Seminar in Business  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Permission of business honors coordinator.
Description: Intersciplinary honors seminar. Topics vary. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 450. Business Applications  3 Units
Prerequisite(s): MGMT 301, MKT 301, FIN 301, and CIS 300.
Description: Using an online simulation, students will make decisions using the various aspects of business (marketing, finance, production, etc.) to run a manufacturing business. The focus is on applying the business concepts learned in the business core classes. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 490. Special Topics in Business  1-6 Units
Term Typically Offered: Fall Only
Prerequisite(s): Junior standing or instructor permission.
Description: A variety of topics in business will be studied. Course content will vary but the content will not duplicate current offerings. A student may take this for credit more than once as long as the same topics were not covered in the previous course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BUS 499. Independent Study in Business  1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Approval of Associate Dean for Undergraduate Programs.
Description: Allows students to select a business subject for study that is not currently offered as part of the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Business Statistics (BSTA)

BSTA 301. Business Statistics  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): An ACT math score of 25 or completion of MATH 111.
Description: Designed for students in Business and Economics, this course introduces them to the basic elements of probability and statistics, covers descriptive statistics, elements of probability theory, properties of discrete and continuous random variables, sampling estimation, hypothesis testing, analysis of variance and regression analysis. The application of these concepts to problem solving in business and economics is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Campus Culture / Business (CAMP)

CAMP 100. Campus Culture/Business Students  1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to College of Business.
Description: Introduction to the multiple dimensions of university life, with emphasis on business education. Students will gain an understanding of various parts of the University and the College of Business—the administration, the faculty, the learning resources, support services, extra-curricular activities—and how these parts contribute to the learning process and academic success.
Note: Required of all beginning freshman and transfer students with fewer than 24 hours entering the College of Business; must be taken prior to completion of 18 hours as a COB student.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chemical Engineering (CHE)

CHE 205. Introduction to Chemical Engineering  3 Units
Term Typically Offered: Summer Only
Prerequisite(s): ENGR 101 and CHEM 202.
Corequisite(s): CHE 230.
Description: Overview of chemical engineering practice and basic principles; problem solving techniques; open ended problems and hands-on projects to introduce design concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHE 211. Chemical Engineering Thermodynamics I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGR 102 and CHEM 202.
Description: Development of first law, PVT behavior of pure fluids and heat effects, development of second law, thermodynamic properties of pure fluids, applications of first and second laws to realistic chemical engineering problems, conversion of heat and work-based cycles. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 230. Computer Applications in Chemical Engineering 2 Units
Term Typically Offered: Summer Only
Prerequisite(s): ENGR 101 and CHEM 202.
Corequisite(s): CHE 205.
Description: Introduction to computer software relevant to solving ChE problems, development of computer solutions to selected problems involving thermodynamics, fluid dynamics, heat and mass transfer, and reactor design. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 253. Materials Science 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 202.
Description: The properties of materials as reflected by the atomic and electronic structure of their constituent elements. Mechanical, thermal, electrical, magnetic, optical, and chemical characteristics of metallic, ceramic, polymeric, and composite solids. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 288. Chemical Engineering Cooperative Education Seminar 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Eligibility for admission to the Chemical Engineering Department, ENGR 102 or equivalent.
Description: Discussion of the policies and procedures for cooperative education; instruction in job search techniques, including resume preparation, forwarding letters, and behavioral interviewing. The student performance appraisal is explained, along with how to be successful in the workplace. The job market is discussed along with company descriptions. In addition the requirements for the Co-op Report are explained. Question and answer sessions with returning students and co-op employers are included. The student also receives training in the use of the University Career Services Management System. This seminar is a prerequisite for the first cooperative education term. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 289. Chemical Engineering Cooperative Education I 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201, CHE 211, CHE 288, and CHE 305.
Description: Full-time technical work experience related to the student’s academic program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 305. Material and Energy Balances 4 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGR 102 and CHE 205.
Description: Stoichiometry, material balances, energy balances, combined material and energy balances for non-flow and flow systems. Problem solving and introduction of computer methods in chemical engineering. Career orientation. Open-ended problems introduce design concepts. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 312. Chemical Engineering Thermodynamics II 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CHE 211.
Description: Fluid mixtures and mixed phase systems, basic vapor-liquid equilibrium (VLE), followed by theory and application of solution thermodynamics, chemical-reaction equilibrium; extension of phase equilibria to include liquid-liquid (LL), vapor-liquid-liquid (VLL), solid-liquid (SL), and solid-vapor (SV) systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 331. Principles of Fluid Dynamics 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CHE 305 and ENGR 201.
Description: Principles of momentum transfer; Newtonian and non-Newtonian behavior; friction factors and pressure drops in laminar and turbulent flow; design of piping systems and fluid metering devices; fluid moving machinery-types, characteristics and selection of pumps and compressors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 351. Physical Chemistry 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHE 312.
Description: Correlation of molecular, physical and chemical phenomena to properties of matter and to common engineering situations. Topics include statistical thermodynamics, kinetics and surface chemistry, photochemistry and electrochemical systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 389. Chemical Engineering Cooperative Education II 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 205, CHE 289, CHE 312, and CHE 331.
Description: Full-time technical work experience related to the student's academic program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHE 401. Safety, Health and Environment 1 Unit
Term Typically Offered: Summer Only
Prerequisite(s): CHE 305.
Description: A survey of the common regulations that Chemical Engineers deal with in the process industries, e.g., OSHA, RCRA, TSCA, etc. Overview of safety, health and environmental issues that Chemical Engineers in the process industries must consider.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 405. Practicum in Chemical Engineering Education 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 253, CHE 305, and consent of the instructor.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes field experience as an undergraduate teaching assistant. Permission to enroll is required. May be repeated for a maximum of 3 credit hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 430. Computer Applications in Chemical Engineering 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGR 205, CHE 312, and CHE 331.
Description: Computer solutions of selected problems involving thermodynamics, fluid dynamics, heat transfer, and reactor design. May include introduction to process simulators such as ASPEN PLUS, ChemCAD etc. Problems include modeling and design of piping networks, reactors, separation processes, etc.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 433. Principles of Heat and Mass Transfer 4 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGR 205, CHE 312, and CHE 331.
Description: Fundamental mechanisms of heat transfer through conduction, convection and radiation and their correlation to the principles of mass transfer with applications to the design of heat exchange equipment as well as continuous and stage-wise mass transfer operations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 436. Separation Operations 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHE 433.
Description: A study of mechanical and chemical separation operations based on the principles of momentum transfer and simultaneous heat and mass transfer. Both traditional and newer separation methods included. Component design is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 441. Kinetics and Chemical Reactors 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CHE 312 and CHE 331.
Description: Basic kinetics for batch reactors, including data analysis by integral and differential methods. Design of tubular and tank reactors for homogeneous reaction systems, including non-isothermal effects and product selectivity problems. Enzyme kinetics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 461. Elements of Process Control 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGR 205 and CHE 436.
Description: Linear control theory and its application to the solution of process control problems. Design of control schemes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 471. The Strategy of Design 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHE 401, CHE 433 and CHE 441.
Description: The techniques and strategies of chemical process design. Technical factors, including synthesis paths, process synthesis, utilities, controls, instrumentation, safety, health and environmental issues, etc. and economic factors such as measures of profitability, time value of money, etc. are considered in developing flowsheets for a chemical process. A case-study approach is used. Computer techniques involving spreadsheets and simulators are used where applicable. Rewriting and editing of a series of written assignments is expected.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 485. Unit Operations Laboratory I 2 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHE 433.
Description: Selected experiments covering the areas of fluid mechanics, momentum and heat transfer. Written technical communications covering experiments will be emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 486. Unit Operations Laboratory II 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHE 436 and CHE 441.
Description: Selected mass transfer experiments covering such areas as filtration, drying, distillation, evaporation, absorption, membrane separations, kinetics, fermentation, environmental concerns, etc. Written and oral technical communications covering the experiments will be emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
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<td>CHE 489</td>
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CHE 550. Kinetics of Polymer Reactions 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 441 and CHEM 341.
Description: Kinetic expressions are developed for several polymer reaction mechanisms including chain, step, ionic and emulsion reactions; copolymerization; polymer reaction engineering; molecular weight distributions; structural considerations; design considerations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 551. Polymer Science 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 341.
Description: Introduction to polymer science and engineering. Polymer synthesis, kinetics, structure, and properties; commercial polymers; polymer processing; equipment design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 562. Process Control Laboratory 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 461.
Description: A laboratory course demonstrating computer simulation and the characteristics of sensing and control devices and their interactions when incorporated into process control systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 572. Plant Process and Project Design - CUE 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHE 471.
Description: The design and economic evaluation of a chemical plant, from process definition and flow sheet construction to a cash position diagram and measures of profitability.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 574. Techniques of Research 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 or more credit hours.
Description: The design, analysis, and interpretation of experimental results to obtain the desired information within reasonable constraints of time and expense. Testing predictions and making reliable decisions utilizing graphical, numerical, and statistical techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 581. Chemical Vapor Deposition and Processing 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 253, CHE 441 and CHEM 435 or the consent of the instructor.
Description: Theoretical and experimental concepts involved with chemical vapor deposition and processing of advanced and nanomaterials.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 593. Independent Study in Chemical Engineering 1-6 Units
Term Typically Offered: Fall, Spring, Summer
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 594. Special Topics in Chemical Engineering 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An examination of one or more specific areas of Chemical Engineering. Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 595. Master of Engineering Seminar in Chemical Engineering 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Fifth-year standing.
Description: Presentation and/or discussion of topics of current interest.
This course is available to students enrolled in the professional school, division of higher studies or the Graduate School.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chemistry (CHEM)

CHEM 100. Elements of General Chemistry 3 Units
Prerequisite(s): Completion of general education requirement in mathematics recommended.
Description: The basic concepts of general and inorganic chemistry including an introduction to the periodic table, atomic and molecular structure, and chemical reactions and equilibria. This course is recommended as preparation for CHEM 201.
Note: May not be counted toward major in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 101. Introduction to Chemistry - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A one-semester introduction to inorganic, organic, and biochemistry for non-majors. The course is designed to provide a general background for an elementary understanding of chemistry and societal issues related to chemistry. May also be taken by the less-prepared student as preparation for CHEM 201.
Note: Not counted toward major in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 103. Introductory Chemistry Laboratory - SL
Term Typically Offered: Fall, Spring
Prerequisite(s): Concurrent registration in CHEM 101. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 105. Chemistry for Health Professionals - S
Term Typically Offered: Fall, Spring, Summer
Description: An introductory survey of both general and organic chemistry with an emphasis on the relationship of chemistry to life processes, health, and nutrition.
Note: Not counted toward major in chemistry.
Note: Does not fulfill general education lab requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 201. General Chemistry I - S
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 1) For students with 15 or fewer hours earned at UofL or another university: a math ACT score of 26 (SAT Math of 600) or higher, or an ACT composite of 27 (SAT 1220) or higher; or 2) For students with 12 or more credit hours earned at UofL or another university: an overall GPA equivalent to a C+(2.30) or higher, and either a minimum grade of C (not C-) in MATH 180 or higher, or a minimum grade of C (not C-) in CHEM 101.
Description: An introduction to the basic concepts and principles of modern chemistry. Special emphasis on chemical periodicity, stoichiometry, equilibrium, thermodynamics, kinetics, atomic and molecular structure, and descriptive chemistry of the elements. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 202. General Chemistry II - S
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 201.
Description: A continuation of the basic concepts and principles of modern chemistry. Topics include equilibria, thermodynamics, kinetics, atomic and molecular structure, and descriptive chemistry of the elements. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 207. Introduction to Chemical Analysis I - SL
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Successful completion of or concurrent registration in CHEM 201.
Description: An introduction to the Chemistry laboratory with an emphasis on qualitative analysis. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 208. Introduction to Chemical Analysis II - SL
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of or concurrent enrollment in CHEM 201 and completion of CHEM 207.
Description: CHEM 208 is a continuation of CHEM 207. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 209. Introduction to Chemical Analysis III
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 208 and successful completion of or concurrent registration in CHEM 202.
Description: Continuation of CHEM 208. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 210. Introduction to Chemical Analysis IV
Term Typically Offered: Fall, Spring
Prerequisite(s): Completion of or concurrent enrollment in CHEM 202 and completion of CHEM 209.
Description: Continuation of CHEM 209; intended especially for Chemistry majors; introduction to instrumental methods of chemical analysis. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 320. Chemical Information Resources
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 341.
Description: The use of printed material and computer based literature search techniques focused on finding specific information on a designated topic. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 341. Organic Chemistry I
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of CHEM 202 and CHEM 209.
Description: Basic principles of organic chemistry: structure and geometry of molecules and consequential physical, chemical, and spectroscopic properties; chemical reactions, mechanisms, and synthetic applications; industrial and biological examples. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 342. Organic Chemistry II
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of CHEM 341.
Description: Continuation of the basic principles of organic chemistry; structure and geometry of molecules and consequential physical, chemical, and spectroscopic properties; chemical reactions, mechanism, and synthetic applications; functional group chemistry and biomolecules. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 343. Organic Chemistry Laboratory I
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Concurrent enrollment in or completion of CHEM 341.
Description: Techniques of modern organic chemistry: syntheses, mechanistic studies, identification of unknowns by chemical and spectroscopic methods, special projects. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### CHEM 344. Organic Chemistry Laboratory II  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Concurrent enrollment in or completion of CHEM 342.  
**Description:** Techniques of modern organic chemistry: syntheses, mechanistic studies, identification of unknowns by chemical and spectroscopic methods, special projects.  
For class offerings for a specific term, refer to the Schedule of Classes.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** CHEM 344, faculty consent and junior standing.  
**Description:** Each student is required to submit a written report (2400 words) to the research advisor near the end of the semester. The advisor will critique the report and return it to the student for revision and submission to the advisor and the department chair at the end of the semester.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Faculty consent.  
**Description:** A guided learning experience in inquiry-based instructional methods and best practices in STEM education. This course includes experimental learning as an undergraduate teaching assistant.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** CHEM 210 and CHEM 342.  
**Description:** Modern instrumental approaches to chemical analysis including atomic and molecular spectroscopy, chromatographic methods, electrochemistry, and statistical analysis of data.  
For class offerings for a specific term, refer to the Schedule of Classes.  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** CHEM 342 and CHEM 344; majors only; permission to enroll required; minimum 3.0 GPA in chemistry to be eligible.  
**Description:** A guided learning experience in inquiry-based instructional methods and best practices in STEM education. This course includes experimental learning as an undergraduate teaching assistant.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** CHEM 341; PHYS 222 or PHYS 299; and MATH 206 (or concurrent).  
**Description:** Survey of Physical Chemistry. Course content includes states of matter, laws of thermodynamics and their applications, chemical and biological kinetics, quantum chemistry, and spectroscopy.  
**Note:** Credit may not be earned for this course and CHEM 465 and CHEM 466.  
For class offerings for a specific term, refer to the Schedule of Classes.
CHEM 445. Survey of Biochemistry 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHEM 342.
Description: A survey of chemical characteristics of the constituents of living matter; cellular metabolism of proteins, nucleic acids, carbohydrates and lipids.
Note: This course will not count as credit for BS major with concentration in biochemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 450. Introduction to Computational Chemistry and Molecular Modeling 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHEM 342 and MATH 206; PHYS 299 or PHYS 222.
Description: A discovery-based approach to common calculations in computational chemistry including how to optimize geometry, locate and characterize transition states, and calculate transition barriers and heats of reaction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 451. Senior Research Seminar 1 Unit
Prerequisite(s): CHEM 591, or CHEM 392 and permission of the research director.
Description: Preparation of the Senior Thesis and an oral presentation of it before a group of peers and faculty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 465. Physical Chemistry I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHEM 202; PHYS 222 or PHYS 299; concurrent registration in MATH 301.
Description: Introduction to the quantum theory of atoms, molecules and the chemical bond. The use of spectroscopy in the determination of molecular structure and chemical function.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 466. Physical Chemistry II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHEM 465.
Description: Thermodynamics, statistical thermodynamics, chemical equilibrium and reaction kinetics from a molecular point of view.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 469. Senior Research Seminar 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty consent.
Description: Each student is required to submit a written report to the research advisor and the Chemistry Department chair at the end of each research period.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 470. Physical Chemistry Laboratory - WR 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHEM 210; CHEM 441 or CHEM 465.
Description: Laboratory experiments and related lecture on properties of gases, thermochemistry, kinetics, electro-chemistry, laser techniques in chemical processes, spectroscopic methods including FTIR, EPR and X-ray crystallography.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Fulfills one WR requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 491. Undergraduate Research - CUE 1-3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): Faculty consent.
Description: Each student is required to submit a written report to the research advisor and the Chemistry Department chair at the end of each research period.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 492. Undergraduate Research 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty consent.
Description: Each student is required to submit a written report to the research advisor and the Chemistry Department chair at the end of each research period.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 501. Independent Study 1-3 Units
Prerequisite(s): Minimum GPA of 3.0 overall; minimum GPA of 3.5 in department and at least 18 semester hours credit in the department.
Description:
Note: Credit may not be applied to an advanced degree in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 503. Special Topics in Chemistry 1-3 Units
Prerequisite(s): As required by topic.
Description: An examination of one or more specified areas of Chemistry. Details announced each semester.
Note: Not applicable toward graduate degree in chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 515. Inorganic Chemistry 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHEM 342; concurrent enrollment in CHEM 441 or CHEM 465.
Description: Descriptive and theoretical chemistry of the elements.
Note: Credit may not be applied to an advanced degree in Chemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 527. Introduction to Separations and Spectroscopy - WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHEM 210, CHEM 342 and CHEM 344; CHEM 441 (or concurrently) or CHEM 465 (or concurrently).
Description: An introductory survey of contemporary chemical instrumentation including gas and liquid chromatography, molecular spectroscopy and 1H and 13C nuclear magnetic resonance. Both hands-on instrument operation and applications to synthetic processes are considered.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 528. Contemporary Methods of Synthesis and Analysis I - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHEM 527.
Description: A discovery-based approach to the solution of problems encountered in chemical synthesis and analysis.
Note: Credit may not be applied to an advanced degree in Chemistry.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 529. Contemporary Methods of Synthesis and Analysis II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHEM 527; CHEM 515 (or concurrently).
Description: A discovery-based approach to the solution of problems encountered in chemical synthesis and analysis.
Note: Credit may not be applied to an advanced degree in Chemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 532. Chemistry Education for Secondary Teachers 4 Units
Prerequisite(s): CHEM 527 (or concurrently).
Description: In-depth examination of chemistry content for secondary teachers as aligned with national and state standards. Inquiry-based laboratory and diverse assessment of core concepts will be developed.
Note: Does not count toward a degree in Chemistry except by departmental permission.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 545. Biochemistry I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHEM 342.
Description: Chemistry of amino acids, peptides, proteins, carbohydrates, nucleotides and nucleic acids; methods of analysis and laboratory synthesis; enzyme properties, kinetics, ligand binding.
Note: Credit may not be earned in both CHEM 545 and CHEM 645, or in both CHEM 545 and CHEM 445.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 546. Biochemistry Laboratory 2 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHEM 445 or concurrent enrollment in CHEM 545.
Description: Application of contemporary laboratory methods of biochemistry including uv/vis spectrophotometry, liquid chromatography centrifugation, gel electrophoresis, mass spectrometry, FTIR, and recombinant DNA techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 547. Biochemistry II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHEM 545.
Description: Cellular metabolism of carbohydrates, lipids, amino acids and biomembrane phenomena; RNA, DNA, and protein synthesis.
Note: Credit may not be earned in both CHEM 547 and CHEM 647, or in both CHEM 547 and CHEM 445.
Note: Credit may not be applied to an advanced degree in chemistry.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 550. Group Theory and its Chemical Applications 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): One year of physical chemistry.
Description: Elementary group theory; the use of group theory to treat symmetry; application to atomic structure, molecular structure, spectroscopy, and reaction mechanisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 557. Bio-Organic Phenomena 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): One year of organic chemistry.
Description: Special topics in the biological chemistry area: e.g., chemical carcinogenesis; diet and cancer, food chemistry and polypeptides; proteins; carbohydrates; enzymes; hormone chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 591. Chemistry for Teachers I 3 Units
Prerequisite(s): For graduate education majors; must have experience in teaching chemistry principles in elementary, middle, or secondary schools.
Description: Teaching pre-college chemistry with emphasis on curriculum content, laboratory procedures, and process skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chinese (CHNS)

CHNS 101. Elementary Chinese I 3 Units
Term Typically Offered: Fall Only
Description: For beginners. Introduction to fundamentals of Mandarin Chinese, including pronunciation, grammar, and some Chinese characters, with emphasis on all four basic language skills - speaking, listening comprehension, reading and writing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 102. Elementary Chinese II 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CHNS 101 or equivalent.
Description: Continued work on fundamentals of Mandarin Chinese, including pronunciation, grammar, and additional Chinese characters, with emphasis on all four basic language skills - speaking, listening comprehension, reading and writing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 200. Study Abroad 1-15 Units
Term Typically Offered: Occasionally Offered
Description: Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 201. Intermediate Chinese I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHNS 102 or equivalent.
Description: Designed to strengthen communication skills of listening, speaking, reading and writing. Grammar review, mastery of 500 Chinese characters; insights into China, its language and culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 202. Intermediate Chinese II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHNS 201 or equivalent.
Description: Continued work on communicative skills of listening, speaking, reading and writing. Mastery of additional signs; insights into China, its language and culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 300. Study Abroad 1-15 Units
Term Typically Offered: Occasionally Offered
Description: Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the department. Credit is awarded with proof of successful completion. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 301. Advanced Intermediate Chinese I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Completion of CHNS 202 or equivalent.
Description: Increase ability to read, write, speak and understand Chinese. Learn new characters and master use of a Chinese-English dictionary. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 302. Advanced Intermediate Chinese II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Completion of CHNS 301 or equivalent.
Description: Emphasis on four language skills continues. Mastery of up to 800 Chinese characters; learn new words from context and character combinations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 311. Independent Study 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHNS 202 or equivalent, or permission of instructor
Description: Independent study in Chinese language, literature and culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 321. Chinese Conversation I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHNS 202 or equivalent.
Description: The course is designed to help students achieve an intermediate level of communication through practicing Chinese while discussing a variety of topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 322. Chinese Conversation II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHNS 321 or equivalent.
Description: The course is designed to help students achieve an advanced intermediate level of communication through practicing Chinese while discussing a variety of topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHNS 455. Advanced Readings in Chinese I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CHNS 302 or permission of the instructor.
Description: Enhances the student’s ability to read and understand modern written Chinese by examining authentic literary and non-literary texts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 456. Advanced Readings in Chinese II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHNS 455 or permission of the instructor.
Description: Continuation of CHNS 455.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHNS 551. Special Topics 3 Units
Prerequisite(s): CHNS 456 (or equivalent), or permission of the instructor.
Description: The course aims at bridging the gap between students advanced skills of spoken Chinese and their understanding of the complexity of advanced written Chinese.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chinese Studies (CHST)

CHST 270. Chinese Contributions to the World - AH, D2 3 Units
Term Typically Offered: Occasionally Offered
Description: An introduction to Chinese historical scientific contributions to the world, the reciprocal influences between Chinese and non-Chinese cultures, and Chinese ethnicity and identities within the global context.
Note: Cross-listed with AST 270 and M L 270.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 313. Special Topics 3 Units
Term Typically Offered: Occasionally Offered
Description: Topic varies by semester. Conducted in English.
Note: May be repeated once for credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 322. Doing Business in China 3 Units
Term Typically Offered: Occasionally Offered
Description: Discussion of business traditions, practices, etiquette, and norms in China. Conducted in English.
Note: Cross-listed with AST 323.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 331. Chinese Culture and Tradition 3 Units
Term Typically Offered: Occasionally Offered
Description: Discussion of Chinese culture and society from the beginnings to 1900, covering topics of religion and government, education, marriage, family, medicine, invention, art, architecture, and other aspects of social life. Conducted in English.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 333. Contemporary China 3 Units
Term Typically Offered: Occasionally Offered
Description: Discussion of the China of today, including popular culture, technology, mass media, folk theater, urban consumer culture, and state policy. Conducted in English.
Note: Cross-listed with AST 333.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 335. China Through Film - AH, D2 3 Units
Term Typically Offered: Fall Only
Description: Examination of 20th-century China through the critical study of selected examples of film. Conducted in English.
Note: Cross-listed with AST 335.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 341. Ethnicity and Religion in China 3 Units
Term Typically Offered: Occasionally Offered
Description: Studies of minority peoples such as Uigurs, Huis, Mongols and Tibetans, including their life style, language, art and religion. Discussion of how Buddhism, Islam, Christianity and other religious ideas spread into China, and their presence today in China. Conducted in English.
Note: Cross-listed with AST 341.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 351. Chinese Literature in Translation I - AH, D2 3 Units
Term Typically Offered: Occasionally Offered
Description: Chinese literature from the beginning to 1911, discussion of principal genres, authors, and works. Conducted in English.
Note: Cross-listed with AST 351.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHST 353. Chinese Literary Theory 3 Units
Description: Discussion of Chinese views of the function of poetry and literature, ancient Chinese aesthetics, and modern literary politics. Conducted in English.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**CHST 361. Western Literature in China**  
*Term Typically Offered: Occasionally Offered*  
*Description: Discussion of the tradition of Chinese translation of foreign authors beginning in the late 19th century and its impact on Chinese literature, culture, and society, with Katherine Mansfield, Mark Twain, Ernest Hemingway, James Joyce and others as examples. Conducted in English.*  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Civil and Environmental Engineering (CEE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 205</td>
<td>Mechanics I: Statics</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ENGR 101 and PHYS 298</td>
<td>Apply fundamental concepts of statics to examine forces, equilibrium, friction, centroids and moments of inertia, to analyze and solve engineering problems. Both vector and scalar methodologies are used. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 254</td>
<td>Mechanics of Solids</td>
<td>3</td>
<td>Fall Only</td>
<td>CEE 205; CEE 255 (or concurrently)</td>
<td>Analysis of deformable engineered members subjected to concentric, flexural, torsion, and combined loading. Examination of statically determinate and indeterminate systems to analyze and design engineering structures. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 255</td>
<td>Mechanics of Materials Laboratory</td>
<td>1</td>
<td>Fall Only</td>
<td>CEE 254</td>
<td>A materials testing laboratory in which the properties of materials such as wood and steel are evaluated. Performances of tension, compression, shear, bending, and torsion tests on various specimens. Experimental determination of stresses. CEE majors. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 260</td>
<td>Civil Engineering Field Measurements</td>
<td>2</td>
<td>Fall Only</td>
<td>ENGR 110 or ENGR 149; restricted to CEE majors.</td>
<td>Focus is on plane surveying, including the use and care of surveying instruments for laying out engineered facilities. Use of proprietary Computer-Aided Engineering software is introduced. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 261</td>
<td>Civil Engineering Field Measurements Laboratory</td>
<td>1</td>
<td>Fall Only</td>
<td>Restricted to Civil Engineering Majors.</td>
<td>Practical applications of plane surveying techniques, including the use and care of surveying instruments, and laying out engineered facilities are introduced. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 288</td>
<td>Civil and Environmental Engineering Cooperative Education Seminar</td>
<td>0</td>
<td>Pass/Fail</td>
<td>Fall, Spring, Summer</td>
<td>Eligibility for admission to the CEE Department. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 289</td>
<td>Civil and Environmental Engineering Cooperative Education I</td>
<td>1</td>
<td>Pass/Fail</td>
<td>Fall, Spring, Summer</td>
<td>Full-time technical work experience related to the student's academic program. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 309</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
<td>Summer Only</td>
<td>CHEM 201 and PHYS 298.</td>
<td>This course is intended as an introduction to the basic science and engineering principles that are involved in assessment of environmental quality, in understanding environmental processes and in developing solutions to environmental problems. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CEE 322</td>
<td>Structural Analysis</td>
<td>3</td>
<td>Summer Only</td>
<td>CEE 254</td>
<td>Classical approaches to analysis determinate and indeterminate structures, including trusses, beams, and frames are presented. Different methods are used to determine the internal forces and the deformation of these structural systems. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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</tbody>
</table>
CEE 370. Engineering Hydraulics  
Term Typically Offered: Spring Only  
Prerequisite(s): CEE 254 and ME 206; CEE 371 (or concurrently).  
Description: A study of the fundamental principles of hydraulics, including fluid statics, kinematics, and dynamics. Application of basic concepts and principles to fluid flow through pipes, open channels, turbo machines, and flow measurement.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 371. Engineering Hydraulics Lab  
Term Typically Offered: Spring Only  
Prerequisite(s): Concurrent registration in CEE 370.  
Description: A hydraulic experimental laboratory in which the static and dynamic properties of fluids are evaluated. Experimental determination of fluid properties, fluid behavior, and the flow dynamics including flowrates and forces.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 389. Civil and Environmental Engineering Cooperative Education II  
Grading Basis: Pass/Fail  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 289.  
Description: Full-time technical work experience related to the student's academic program.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 401. Civil Engineering Professional Practice  
Term Typically Offered: Fall Only  
Prerequisite(s): Admission to the CEE Department.  
Description: Professional practices, issues relating to effective communication skills (written and oral) and engineering ethics are emphasized. The course includes simulations and presentations by legal and engineering practitioners.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 405. Practicum in Civil and Environmental Engineering Education  
Term Typically Offered: Fall, Summer  
Prerequisite(s): CEE 205, consent of the instructor.  
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes a field experience as an undergraduate teaching assistant. Permission to enroll required.  
Note: May be repeated for a maximum of 3 credit hours.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 421. Fundamentals of Concrete Design  
Term Typically Offered: Spring Only  
Prerequisite(s): CEE 322.  
Description: Introduction to concrete design specifications (ACI); the design of structural systems in concrete, slabs, buildings, and frames.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 422. Fundamentals of Steel Design  
Term Typically Offered: Fall Only  
Prerequisite(s): CEE 322.  
Description: Introduction to the AISC LRFD steel design specification. Design of steel tension members, beams, columns, beam-columns, and connections.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 450. Geomechanics  
Term Typically Offered: Fall Only  
Prerequisite(s): CEE 370, GEOS 301; CEE 451 (or concurrent).  
Description: Application of mechanical principles to the behavior of soil masses. Soil mineralogy; hydraulic behavior; consolidation theory and settlement analyses; shear strength.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 451. Geomechanics Laboratory  
Term Typically Offered: Fall Only  
Prerequisite(s): CEE 450 (or concurrent).  
Description: Laboratory measurement of soil properties including index properties, permeability, compressibility, and shear strength.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 452. Foundation Engineering  
Term Typically Offered: Spring Only  
Prerequisite(s): CEE 450.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 460. Transportation Systems Engineering  
Term Typically Offered: Spring Only  
Prerequisite(s): CEE 260 and first-year professional school standing.  
Description: A study of the planning, design, implementation, and evaluation of transportation systems across the modes. Issues of legislation, regulation, and funding are also examined.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CEE 470. Surface Water Hydrology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CEE 370.
Description: Hydrologic cycle, rainfall, rainfall abstractions including infiltration theory, and runoff. Unit hydrograph theory and its application in runoff computations from watersheds. Statistical applications in hydrology including frequency analysis, flood routing and hydrologic engineering and design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 471. Water Supply and Sewerage 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CEE 470.
Description: Quantity of water and sewage; collection and distribution of water supplies; quality of water supplies; characteristics of sewage and disposal; principles and design of processes for preliminary, primary and secondary treatment of water supplies and sewage including screening, clarification and filtration; and stormwater management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 480. Civil & Environmental Engineering Capstone Design - CUE 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CEE 422 and CEE 460.
Corequisite(s): CEE 421, CEE 452, and CEE 471.
Description: An introduction to integrated civil engineering design, incorporating aspects of geotechnical, structural, transportation, and water resources engineering into a more comprehensive design project.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 489. Civil Engineering Cooperative Education III 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 288 and CEE 389.
Description: Full-time technical work experience related to the student’s academic program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 503. Fundamentals of Engineering Exam Review 2 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 4th-year standing.
Description: Review of topics covered on eight-hour NCEES Fundamentals of Engineering examination. Not to be counted towards meeting the requirements for a degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 520. Design of Structural Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 421, CEE 422, and CEE 452.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 522. Fundamentals of Prestressed Concrete 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 322 and CEE 421.
Description: Introduction to pre-tensioned and post-tensioned prestressed concrete. Design of precast concrete slabs, buildings, and bridges in accordance with ACI specifications and the Prestressed Concrete Institute (PCI) recommended practices. Application of computer programs for member analysis and design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 523. Timber Design 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 254 or consent of instructor.
Description: Concepts of Structural Timber design will be taught. The properties of wood materials will be reviewed and the procedures for the design of typical timber components will be presented. In addition to course assignments, and tests, required of all students, students taking this course for graduate credit will be required to complete a group design of a simple building.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 530. Construction Materials 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CEE 254 and CEE 255.
Description: Properties of construction materials such as cement, concrete, asphalt, and structural elastomers. Design of Portland cement concrete and asphaltic concrete mixes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 532. Experimental Stress Analysis 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 530.
Description: Fundamentals of experimental stress analysis, brittle coating, photoelastic coating, and electrical strain gage techniques, strain measurements under static and dynamic loading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 552. Earth Pressures and Retaining Structures 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 450.
Description: Earth pressure calculation: theory and practice. Design techniques for retaining walls, reinforced earth and soil nailing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CEE 560. Traffic Engineering
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 460.
Description: Examines characteristics of the vehicle, the driver, and the traffic stream. Highway and intersection capacity, theory of traffic flow, parking, traffic safety.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 562. Geometric Design of Highways
Term Typically Offered: Occasionally Offered
Prerequisite(s): CEE 460.
Description: The concepts of geometric design for rural and urban highways, utilizing proprietary design software are introduced and applied.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 563. GPS Theory and Application
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 460.
Description: This course is designed to give the student an overview of the use of Global Positioning Systems in surveying and engineering applications. Elements of coordinate systems, map projections, GPS principles of operation, mapping, boundary, and construction surveys will be covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 565. GIS Applications to Transportation
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 460.
Description: Introduces an overview and application of current methods of implementing GIS solutions to highway data analysis and planning studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 570. Applied Hydraulics
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 572.
Description: Application of basic principles of hydraulic engineering to analysis of flow in floodways, through bridge openings, culverts, and spillways. Analysis of stable channel design is also considered. Commonly used computer programs are utilized to design structures in floodways.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 571. Applied Hydrology
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 470.
Description: Introduction to hydrologic systems; modeling runoff from watersheds using lumped and distributed methods; stormwater management and design; hydrologic and hydraulic routing including kinematic wave routing; computer rainfall-runoff simulation models. A hydrologic design project will be assigned to all students; special assignments dealing with hydrologic processes will be assigned to MS degree students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 572. Open Channel Hydraulics
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 370.
Description: Application of basic principles of hydraulics to open channel flow. Theory and analysis of critical, uniform and gradually varied flow and computer analysis. Select topics in rapidly varied and unsteady flow.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 573. Groundwater Hydrology
Term Typically Offered: Occasionally Offered
Prerequisite(s): CEE 450 and CEE 470.
Description: Fundamental concepts of fluid flow and soil properties; theory of groundwater movement; mechanics of well flow; groundwater contaminant transport.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 590. Current Topics in Civil Engineering
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: An examination of one or more topics in Civil Engineering. Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CLAW 301. Legal Environment of Business
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the College of Business.
Description: An introduction to the American legal and judicial system, with particular emphasis on the relationship of the law to business activities. A study of the developments of the law and the operation of the judicial system. Emphasis will be placed on the impact that government regulations and certain areas of the Uniform Commercial Code have on business.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Communication (COMM)

COMM 111. Introduction to Public Speaking - OC 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Training in fundamental processes and attributes of effective public speaking.
Note: Credit may not be received for this course and COMM 112.
Note: Does not count toward Communication major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 112. Business and Professional Speaking - OC 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Develops theoretical and applied material concerning communication practices appropriate to business and professional settings.
Note: Credit may not be received for this course and COMM 111.
Note: Does not count toward Communication major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 115. Interpersonal Skills - OC 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Training in basic processes and skills of face-to-face interaction. Emphasis on developing language, nonverbal, and conflict management skills.
Note: Does not count toward Communication major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 201. Introduction to Communication - SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to basic concepts of communication discipline. Focuses on communication processes in interpersonal, small groups, organizations, and mass media.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 255. Communication Practice 3 Units
Term Typically Offered: Occasionally Offered
Description: Explores vocational options within the communication field and develops skills relevant to career planning. Students develop an academic plan that integrates with their long-term vocational aspirations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 275. African-American Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Study of various dimensions of communication pertaining specifically to African Americans. Communication patterns within the African-American community as well as communication patterns about that community are analyzed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 301. Special Topics in Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201.
Description: Investigation of topics not offered in regular courses.
Note: Topics vary.
Note: May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 302. Advanced Speech Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 111 or COMM 112 or COMM 115 or HON 214.
Description: Advanced principles and techniques of effective public speaking.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 303. Introduction to Communication Technologies 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201 or permission of instructor.
Description: Students learn about communication technologies in contemporary society, explore the various contexts in which these technologies are used, and apply theoretical perspectives to the use of these technologies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 304. Argument In Everyday Life 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Surveys theory and practice related to the creation and analysis of arguments in public communication. Topics include argument structure, evidence, types and limitations of inferences, and the adaptation of messages to particular contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 305. Introduction to Mass Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201.
Description: Survey of media institutions and effects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 310. Business Communication 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): COMM 201.
Description: Overview of the scope and importance of communication in business, and the development of business communication skills students will employ throughout their professional careers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 311. Persuasion 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Junior standing.
Description: Theory and practice of social influence; discusses relationships between the idea of persuasion and broader theories of communication and human behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 312. Group Process 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): COMM 201.
Description: Studies communication processes in group settings; emphasizes empirical research findings in leadership, interpersonal bargaining, and problems of group problem-solving.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 313. Organizational Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201.
Description: Surveys recent theory and research dealing with the roles and effects of communication in complex organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 315. Introduction to Interpersonal Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Study of communication principles as they apply in everyday life. Applying social conventions as guides for effective communication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 316. Research Methods 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201.
Description: Introduction to basic research methods of communication discipline. Examines relationship of theory and methods, research design, and measurement in communication contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 317. Communication Internship 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 2.5 GPA overall and faculty consent.
Description: Practical experience in communication-related employment.
Note: Contact department for application procedures and guidelines.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 319. Debate 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 111 or COMM 112 or COMM 115 or faculty consent.
Description: Principles and techniques of preparing evidence and of persuasive speaking before critical listeners.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 320. Newswriting - WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201.
Description: Study and practice of news-writing and reporting techniques for routine news stories, including story organization, writing story leads, and the elements of hard news and feature journalism.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 321. Digital Journalism - WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201 or faculty consent.
Description: The study of journalism in a multimedia environment including reporting, video, blogging, and other online content work.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 322. Sports Writing - WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): COMM 201 or faculty consent.
Description: Students will study and practice writing and reporting techniques for sport events and become familiar with elements of journalism and story organization.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 323. Magazine and Feature Writing - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): COMM 201 and faculty consent.
Description: Introduction to practice and techniques of preparing articles for popular, specialized, and trade publication; attention to marketing and magazine makeup.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 324. Communication and Gender 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: The course examines how gender identities, roles and norms have been structured within different modes of communication (e.g., interpersonal, mass media and institutional).
Note: Cross-listed with WGST 324.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 325. Communicating Hip-Hop Culture 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Analysis of rap music as a communicative force both within and about hip-hop culture. Topics of study include the origins, development, and participants of the culture with special emphasis on rap music as the primary vehicle of communication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 326. African Americans in American Media 3 Units
Term Typically Offered: Spring Only
Description: The evolution of the popular image of African Americans as reflected in the visual media of television and the cinema.
Note: Cross-listed with PAS 312.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 327. Mass Media Processes and Effects 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Theory and research pertaining to the effects of various mass media. Topics include advertising, journalism, educational programming, violence, and pornography.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 328. Introduction to Urban Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201.
Description: Theoretical and empirical approaches to the study of communication as it relates to the culture of urban communities, especially African Americans, Latinos, women, and marginalized groups. Emphasis is on cross-cultural relations, rhetoric and language, media, and educational organizations with special focus on understanding the role communication plays in shaping the identity of these communication groups.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 329. Marriage and Family Communication 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): COMM 201.
Description: Explores the diversity of marital and family systems. The course reviews the major theories, concepts and research findings in family communication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 330. Social Media, Mobile Technologies and Strategic Communications 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): COMM 201.
Description: Explores social media and other emerging technologies and how they influence communication practice in a variety of settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 331. Video Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201 and COMM 305, or by permission of instructor.
Description: Introduction to basic theory and practices with an emphasis on application of concepts in the development of news stories, advertisements, and other video projects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 332. Video Communication II 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): COMM 335 or equivalent.
Description: Study of advanced principles of video production including producing, directing, shooting and non-linear editing, along with concepts and theories of aesthetics and video as a communication form.
Note: Students who previously took COMM 461 - Advanced Video Communication should not take this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 337. Campus Media  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): COMM 320 or faculty consent.  
Description: The study and practice of finding news stories, reporting, and delivering content in multiple platforms. This course serves as an academic component in the weekly production of the campus newspaper.  
Note: Students who previously took COMM 301: Campus Media may not take this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 338. Introduction to Film Production  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): COMM 201 or by permission of instructor.  
Description: Hands on class designed to introduce students to the many facets of film production including visual, sound, writing, and representational strategies.  
Note: Students may not receive credit for this course and for COMM 335.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 339. Fiction Film Production  
Term Typically Offered: Spring Only  
Prerequisite(s): COMM 338.  
Description: Expanded understanding of the creative process and development of short narrative films.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 340. Introduction to Visual Communication  
Term Typically Offered: Fall, Spring  
Description: An examination of the basic forms used in the composition of visual information and how these forms are used to produce visual messages. The basic concepts of visuals rhetoric are also explored.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 342. Introduction to Strategic Communication  
Term Typically Offered: Fall, Spring  
Prerequisite(s): COMM 201 or by permission of instructor.  
Description: Explores the various forms of persuasive communications employed in corporate, agency and nonprofit settings. Course content covers public relations, advertising, sales promotion, relationship marketing, direct marketing, database marketing, cyber marketing, globalization, and business ethics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 344. Strategic Communication Writing - WR  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): COMM 342.  
Description: Skills for writing across the multiple media platforms and genres that are currently used in strategic communication campaigns.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 346. Strategic Media Management  
Term Typically Offered: Spring Only  
Prerequisite(s): COMM 342.  
Description: Introduction to the planning process for managing messages across a variety of media. Media planning and media selection in advertising and public relations, and how media are integrated with broader strategic communication campaigns.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 348. Creativity in Advertising  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): COMM 342.  
Description: Study and practice of the creative process and the team dynamic in the development of advertising campaigns.  
Note: Cross-listed with ART 372.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 350. Introduction to Intercultural Communication - D2, SB  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): COMM 201.  
Description: Introduction to communication among people from different cultures and nation-states.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 360. Web Site Development  
Term Typically Offered: Fall, Spring, Summer  
Description: Study and practice of producing and placing materials on the World Wide Web. Activities include creating, manipulating, and maintaining graphics, audio, and text documents.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 361. Web Site Development II  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): COMM 360 or equivalent.  
Description: Study and use of common scripting languages used to create dynamic, interactive web sites. The scripting languages studied vary, but typically include both server-side and client-side languages.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 365. Special Topics in Communication Service Learning 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): COMM 201.
Description: Study of communication concepts and theories that will be applied in service learning field work.
Note: May be repeated under different subtitles.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 370. Desktop Publishing 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to the developing field of desktop publishing in organizations. Focus on strategic thinking required to conceptualize printed materials and basic principles of message development applied to produce documents in a computerized environment.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 380. Practicum 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): COMM 201 or faculty consent.
Description: Participation in supervised research.
Note: May not be taken simultaneously with COMM 480.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 401. Independent Study in Communication 1-6 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): 18 hours in Department, 3.0 GPA overall and 3.2 GPA in major.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 402. Independent Research in Communication - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): 18 hours in department, 90 total credit hours, 3.0 GPA overall and 3.2 GPA in major, and faculty consent.
Description: Integration of communication concepts and theories to study a contemporary issue or problem within the discipline.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 410. International Communication 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): COMM 305.
Description: Study of international communication systems; emphasis on foreign press, freedom of information, satellite communication, and programming patterns in cross-cultural settings.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 411. Mass Communication Law 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): COMM 305.
Description: Study of media regulation by constitutional and governmental processes; includes review of legal decisions, role of federal agencies, and historical trends in media control.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 412. Communication Criticism 3 Units
Term Typically Offered: Occasionally Offered
Description: Compares critical methods for analysis and appraisal of persuasive messages in speeches and texts involving news and advertising.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 413. Environmental Communication - CUE 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): COMM 304 or instructor permission.
Description: Exploration of the social role of communication technologies and environmental issues. Focus on communication strategies to promote sustainability and conservation.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 417. Senior Communication Internship - CUE 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Senior standing, 2.5 GPA overall, and faculty consent.
Description: Practical experience in communication related employment and critical reflection on how communication concepts and knowledge are applied in the field.
Note: Contact department for application procedures and guidelines.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 421. Communication Technologies - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): COMM 305 or faculty consent.
Description: Exploration of the social role of communication technologies with an emphasis on electronic media.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 422. Reality Television 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): COMM 305.
Description: Study of the various genres of reality television, its audiences, and the culture in which this programming is produced. For class offerings for a specific term, refer to the Schedule of Classes.

COMM 427. Case Studies in Communication - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): 90 credit hours completed and COMM 316, or faculty consent.
Description: Introduction to the case study method in communication on a topic relevant to the discipline.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

 COMM 428. Advanced Video Communication 3 Units
Prerequisite(s): COMM 335 or faculty consent.
Description: Covers advanced principles of video production while students play roles in directing, producing and working in a crew environment on video productions.
For class offerings for a specific term, refer to the Schedule of Classes.

COMM 430. Health Communication - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): COMM 201 or consent of instructor.
Description: Nature, function and importance of communication in health care delivery. Applies communication theory and skills to health contexts.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

COMM 431. Political Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): COMM 305 or permission of instructor.
Description: Study of communication as a vital part of democracy, informing citizens and shaping public policy. Course examines political communication messages from both the electorate and campaign practitioner perspectives.
For class offerings for a specific term, refer to the Schedule of Classes.

COMM 432. Advanced Organizational Communication - WR 3 Units
Prerequisite(s): COMM 313.
Description: In-depth view of theories of organizational communication, including assumptions, philosophies and methodologies that undergird and shape past and current research.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

COMM 433. Children and Television - WR 3 Units
Prerequisite(s): COMM 305 or faculty consent.
Description: Explores ways television influences the attitudes, values, and behavior of children and adolescents. Special emphasis on critically analyzing theoretical and empirical literature on the effects of television on children.
For class offerings for a specific term, refer to the Schedule of Classes.

COMM 434. Global Media - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): COMM 201.
Description: Study of the history of media globalization as well as the political, economic, and cultural problems and opportunities involved in the trend toward globalization and international information flow.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

COMM 435. Media, Culture and Society 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): COMM 305.
Description: Advanced study of media culture; analytical and critical perspectives on the institutional and social dimensions of television, film, journalism, and popular music.
For class offerings for a specific term, refer to the Schedule of Classes.

COMM 436. Health Communication Campaign Planning - CUE, WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): COMM 305 or COMM 342 or permission of instructor.
Description: An introduction to health campaign design and development including a discussion of how different media are used to impact health beliefs and behavioral decisions.
Note: Approved for the Arts and Sciences Upper-Level Requirement in Written Communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes.
COMM 437. Mass Media and Close Relationships - CUE 3 Units
**Term Typically Offered:** Fall Only
**Prerequisite(s):** COMM 315.
**Description:** An introduction to the core principles, concepts, methods, and research findings related to the study of romance, sex and friendship in the mass media.

**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 438. Intimate Communication - WR 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** COMM 201.
**Description:** Explores communication issues in intimate personal relationships.

**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 445. Strategic Communication Campaigns - CUE 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Prerequisite(s):** COMM 342 or COMM 346 or permission of instructor.
**Description:** Critical and analytical thinking to develop effective communication campaigns that apply appropriate communication strategies and practices. Participation in a project that develops a comprehensive and integrated strategic communication campaign that addresses multiple audiences and key publics.

**Note:** Credit may not be earned for this course and for COMM 425 if taken prior to summer 2012.

**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 440. Advanced Intercultural Communication - CUE, WR 3 Units
**Term Typically Offered:** Spring Only
**Prerequisite(s):** COMM 350 and 90 hours completed.
**Description:** Survey of theory and research pertaining to problems of cross-cultural communication, including cultural, national, ethnic, and racial divisions.

**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 460. Special Topics in Communication Studies 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Prerequisite(s):** COMM 201.
**Description:** Investigation of topics not offered in regular courses.

**Note:** May be repeated up to 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 461. Special Topics in Mass Communication 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Prerequisite(s):** COMM 201.
**Description:** Investigation of topics not offered in regular courses.

**Note:** May be repeated up to 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 463. Special Topics in Communication Studies - WR 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Prerequisite(s):** COMM 201.
**Description:**

**Note:** May be repeated when topics vary.

**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 465. Special Topics in Communication Service Learning - CUE 3 Units
**Term Typically Offered:** Fall, Spring
**Prerequisite(s):** 90 credit hours and faculty consent.
**Description:** Study of Communication concepts and theories that will be applied in service learning field work.

**Note:** May be repeated under different subtitles.

**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 480. Senior Practicum 1-3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Prerequisite(s):** COMM 316 and faculty consent.
**Description:** Participation in supervised research.

**Note:** May not be taken simultaneously with COMM 380.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 481. Senior Practicum - CUE  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): 90 credit hours completed, COMM 316 and faculty consent.  
Description: Practical communication project and/or participation in supervised research. May not be taken simultaneously with COMM 380.  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 498. Senior Thesis - CUE, WR  
Prerequisite(s): 90 credit hours completed and faculty consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 499. Senior Thesis - WR  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Senior standing; admission to departmental honors program.  
Description:  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 505. Perspectives on Religion and Media - CUE, WR  
Prerequisite(s): COMM 305 and 90 credit hours completed.  
Description: Study of the history and meaning of mediated religious communication, focusing on journalism and strategic communication.  
Note: Approval for the Arts & Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 506. Ethical Problems in Communication - CUE, WR  
Prerequisite(s): COMM 305 and 90 credit hours completed.  
Description: Examines the moral and ethical problems posed by communication practices. Topics include case studies in interpersonal communication, journalism, public relations, and advertising.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 510. Special Topics in Communication Studies  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Faculty consent.  
Description: Advanced study in specific areas of Communication Studies.  
Note: May be repeated under different subtitles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 513. History of Communication - WR  
Description: Examination of the history of communication both as a set of practices and as a subject of academic inquiry.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 520. Computer-Mediated Communication - WR  
Term Typically Offered: Occasionally Offered  
Description: Conceptual analysis and practical use of computer networks with an emphasis on the social and cultural dimensions of this type of human communication.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 530. Science Communication  
Description: The course examines the conceptual foundations and practices of science communication. It examines the institutional and intellectual contexts of science communication as well as the scientific constraints on science communication.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 540. Public Communication Campaigns  
Term Typically Offered: Occasionally Offered  
Description: Drawing upon emerging new theories and empirical studies on influencing audiences, this course examines mediated public communication campaigns.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 555. Persuasive Movements 3 Units
Description: Seminar focuses upon the role of persuasion and rhetoric in the formation and lifespan of social movements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 565. Special Topics in Communication Service Learning - CUE 3 Units
Prerequisite(s): Faculty consent.
Description: Study of communication concepts and theories that will be applied in service learning field work.
Note: May be repeated under different subtitles.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 580. Interpersonal Communication 3 Units
Description: Study of communication in everyday life, including casual conversation and interaction among acquaintances.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 590. Health Communication 3 Units
Prerequisite(s): Consent of instructor.
Description: Studies the nature, function, and importance of communication in the delivery of health care, and/or medical knowledge.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Communicative Disorders (CMDS)

CMDS 563. Clinical Phonetics 3 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: The International Phonetic Alphabet and other symbol systems are utilized in transcription of speech sounds. A description of speech sounds in terms of acoustics and physiologic dimensions. Special emphasis on speech disorders and dialects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 564. Normal Speech and Language Development 4 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: CMDS 564 reviews normal development of language and speech across the lifespan including syntax, semantics, morphology, pragmatics, and phonology. An overview of dialectical, cultural, and bilingual aspects are discussed as well as basic language sampling and analysis procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 570. Clinical Observation in Speech Pathology and Audiology 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to graduate students only.
Description: Observations in speech pathology and audiology. Additional observations may be assigned to introduce students to the variety of practicum opportunities available in the program. Pass/fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 571. Functional Neuroanatomy 3 Units
Term Typically Offered: Fall Only
Description: An overview of general neuroanatomy and neuroanatomical principles applied to communication and communicative disorders including hearing, speech, language, cognition, swallowing, and emotion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 572. Anatomy and Physiology for Communication Sciences 4 Units
Prerequisite(s): Restricted to graduate students only.
Description: Structure and function of speech, auditory/vestibular mechanisms. Includes neuroanatomy and neurophysiology of communication. Emphasis on clinical applications. Dissection of human cadaver material.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Computer Engineering & Computer Science (CECS)

CECS 130. Introduction to Programming Languages 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to programming languages with emphasis on C and C++, and a brief introduction to Java. It includes laboratory exercises on the writing and compiling computer programs in C, C++, and Java.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 220. Object Oriented Program Design with Java 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 130.
Description: Introduction to Object Oriented Program design principal concepts and program development using Java programming language. It includes laboratory exercises on the design and implementation of computer applications in Java.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CECS 288. Computer Engineering and Computer Science Cooperative Education Seminar 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Description: Discussion of the policies and procedures for cooperative education and instruction in self-directed job search techniques, including interviewing skills, resume preparation, and guidelines for the co-op report. This is a prerequisite for each cooperative education term.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 289. Computer Engineering and Computer Science Cooperative Education I 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 288 and CECS 302.
Description: Full-time technical work experience related to the student’s academic program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 302. Data Structures 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 130.
Description: Study of information representations and relationship between the form of representation and processing techniques. Transformations between storage media. Referencing of information as related to the structure of its representation and implications for the design of the referencing language. Engineering applications and associated designs are used to illustrate different structures.
Note: Enrollment restricted to CECS students only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 310. Discrete Structures 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Third-year standing.
Description: Engineering applications using computer structures including algebraic computational structures, finite state machines, relational structures, propositional logic, trees, graphs, groups, machine equivalence, introduction to formal grammar. Applications of these structures to engineering problems including fluid flow, communication systems, artificial intelligence, digital logic, and algorithm evaluation. A written report is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 311. Ethics, Social, and Legal Aspects on the Electronic Frontier 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Third-year standing.
Description: Examination of the legal, social and ethical issues associated with electronic information dissemination and manipulation with a focus on computer systems and networks. Topics include current issues and controversies that put the needs and desires of one group against those of other groups, including business, governmental and social interests. Students will be required to complete papers on the topics discussed and participate in class discussions. Technical writing and oral presentations are required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 389. Computer Engineering and Computer Science Cooperative Education II 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 289.
Description: Full-time technical work experience related to the student’s academic program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 393. Independent Study in Computer Engineering and Computer Science 1-6 Units
Term Typically Offered: Fall, Spring, Summer
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 412. Introduction to Embedded Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 210 and Junior standing, or faculty consent.
Description: Introduction to embedded systems; assembly language programming, parallel and serial data transfer; polling, interrupts, and servicing of interrupts; software and hardware timing; analog-to-digital and digital-to-analog conversion. Laboratory projects on interfacing, system design, and implementation.
Note: Cross-listed with ECE 412.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 419. Introduction to Algorithms 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 302 and CECS 310.
Description: This course covers an introduction to algorithms, spanning topics ranging from computational complexity to advanced tree and graph algorithms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CECS 420. Design of Operating Systems 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 302 or equivalent.
Description: The course is designed to cover basic concepts of operating systems design and implementation including processes management, memory management, input/output and file management, storage management, distributed systems, and security.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 489. Computer Engineering and Computer Science Cooperative Education III 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 389.
Description: Full-time technical work experience related to the student's academic program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 503. Survey of Computer Engineering and Computer Science 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 130.
Description: Introduction to foundations of computer engineering and computer science for non-majors. Emphasis on C++ programming language, data structures and algorithms, and operating systems fundamentals. This course cannot be used to meet degree requirements for any CECS/CS/CSE degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 504. Automata Theory 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 310.
Description: Finite state machines and their application to engineering problems including modeling the behavior of discrete systems. Topics include theory of computing, formal language theory, and applications of cellular automata. Engineering models of digital computer hardware are covered and related to software design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 506. Modeling and Analysis of Engineering Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 330.
Description: Representation of engineering systems, Fourier analysis, z-transforms, frequency response, state-space analysis, stability, an introduction to the basic theory of filter design; and demonstrated concepts to CAS.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 510. Computer Design 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 210.
Corequisite(s): ECE 511.
Description: Review of logic design and elementary computer organization. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.
Note: Cross-listed with ECE 510.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 516. Fundamentals of Computer Communications and Networks 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ECE 360 or IE 360, and CECS 412.
Description: Data communications: The exchange of data between devices is covered. The key aspects of transmission interfacing, link control, and multiplexing are examined. Data communication networking: Examines the internal mechanisms by which communication networks provide a data transfer service for attached devices.
Note: Cross-listed with ECE 518.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 522. Performance Evaluation of Computer Systems 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): IE 360 and CECS 420.
Description: A study of approaches to the evaluation of computer systems. Measurement techniques and evaluation techniques are treated in detail with attention to existing commercial hardware and software monitors and simulators.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 525. Microcomputer Design 4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 412 or CECS 412 or consent of instructor.
Description: Design and construction of microcomputers with microprocessors and digital integrated circuits. Breadboarding, hardware design, and software design are emphasized. The class is separated into groups, and each group designs, breadboards, and tests a complete microcomputer system, including interfaces to peripheral devices.
Note: Cross-listed with ECE 516.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 528. Game Design and Programming 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 302.
Description: This course will provide an overview of Multimedia and Game programming, and teach basic computer game design techniques using state-of-art game engines.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CECS 530. Design of Compilers 3 Units
Term Typically Offered: Spring, Summer
Prerequisite(s): CECS 420.
Description: Engineering descriptions of algorithmic language. Study of syntax, semantics, ambiguities, procedures, replication, iterations, and recursion in the language. Engineering design of a compiler.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 535. Introduction to Databases 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 302 or equivalent.
Description: Course covers basics of database design, SQL, query processing, and optimization, transactions. The emphasis will be placed on Engineering design and implementation of relational systems. A written project is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 536. Data Management and Analysis 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: The goal of the course is to teach, to the students who are not Computer Science majors, the basic skills needed to organize, assess and analyze data sets. The course discusses a variety of tools (file systems, database systems, and the R environment) as well as a series of basic tasks, from generating metadata to basic filtering, organizing and enrichment of data sets. This course contributes to develop analysis, modeling and problem-solving skills.
Note: This course is intended for non-CECS majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 540. Object Oriented Information Technology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Graduate standing.
Description: Survey of design and development of object oriented software. Software architectures, development environments, graphical user interfaces, and networks of distributed objects. Software design project required.
Note: CECS students cannot receive credit for CECS 440 and 540.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 542. Computer Control and Real Time Programming 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 412 or CECS 412.
Description: Programmable Logic Controllers, Human Machine interfaces, SCADA, state machines, sensors, and actuators. Study of industrial algorithms, open/closed loop real-time control and schematics.
Note: Cross-listed with ECE 517.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 545. Artificial Intelligence 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CECS 302 and CECS 310.
Description: This course introduces the use of predicate calculus logic, heuristic search, and knowledge representations for solving engineering and computer science problems. The course includes coverage of rule-based expert systems, intelligent agents, and machine learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 550. Software Engineering 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 420
Description: Engineering methods applied to the life-cycle issues in the team-oriented development of large software systems including issues of software processes, metrics, testing and quality. Documentation of the project and an oral presentation are required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 553. Information Security 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 302 and equivalent.
Description: Course covers basics of database design, SQL, query processing, and optimization, transactions. The emphasis will be placed on Engineering design and implementation of relational systems. A written project is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 556. Introduction to Cryptography 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CECS 310 and IE 360.
Description: This course gives a historical introduction to cryptography and the science of secret codes. The first part covers substitution ciphers, transposition codes, Vigenere cipher and more complex polyalphabetic substitutions including those created by rotor machines. The second part describes hill block cipher schemes such as Data Encryption Standard (DES). Public key encryption is the subject of the final part including RSA, Knapsack codes, and Diffie-Hellman key exchange.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 563. Experimental Design in Engineering 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 360.
Description: Design of experiments and projects using theory of least squares, analysis of variance and co-variance, randomized blocks, Latin squares, factorial experiments and associated topics. Engineering design problems using SAS or equivalent software packages.
Note: Cross-listed with IE 563.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 564. Information Security 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CECS 310 and IE 360.
Description: Course covers basics of database design, SQL, query processing, and optimization, transactions. The emphasis will be placed on Engineering design and implementation of relational systems. A written project is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 565. Advanced Data Management 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 536.
Description: Advanced topics in database design and implementation, including advanced query languages, transaction processing, and database recovery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 566. Advanced Cryptography 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CECS 553.
Description: Advanced topics in cryptography, including post-quantum cryptography, homomorphic encryption, and zero-knowledge proofs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 570. Topics in Computer Science 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CECS 420.
Description: Topics vary each semester, but typically include advanced topics in software engineering, artificial intelligence, and data management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Computer Information Systems (CIS)

CIS 150. Fundamentals of Information Systems  
3 Units  
Term Typically Offered: Fall, Spring  
Description: This course provides an overview of contemporary information systems, and how they are used in organizations. It presents an introduction to the discipline of CIS and how information systems can be used to create competitive advantage. Topics include application/web development, including the system development life cycle, information security, business process management, and emerging technologies. Students will develop basic web sites including the use of HTML, CSS, and Javascript.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 199. Software Development I  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): CIS 250 or equivalent; CIS 150 (or concurrent).  
Description: This course introduces object-oriented concepts such as the use of classes, methods, encapsulation, and inheritance. The course concentrates on using object-oriented programming to solve simple problems involving input and output. Computer lab sessions are used to reinforce programming concepts. Extensive programming assignments are required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 200. Software Development II  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): CIS 199.  
Description: This course emphasizes object-oriented software development. Students study the object model and apply it to systems development problems. Topics include polymorphism, inheritance, and object interaction. Event-driven programming of graphical user interfaces is introduced. Application areas may include data structures, searching, sorting, and databases. Extensive programming assignments are required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 201. Introduction to Web Programming  
6 Units  
Prerequisite(s): CIS 100 or CIS 250 (grade of C or better); MATH 107 (grade of C or better).  
Description: This course provides an introduction to Web technologies and effective Web site design, implementation, and maintenance. The architecture of the Web, the use of the Web for sharing data, and models for using the Web to conduct business are explored. Students learn the fundamentals of web site design using languages such as HTML, JavaScript, and XML. Students become proficient in developing web sites for their own use. Additionally, this course introduces object-oriented programming using Java. Students learn the fundamentals of the object model, including the use of classes and encapsulation. The course concentrates on algorithmic development, with emphasis on sound techniques for designing, coding, debugging and documenting programs. Computer lab sessions are used to reinforce programming concepts. Extensive programming assignments are required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CIS 202. Software Development III 3 Units  
**Prerequisite(s):** CIS 200 (grade of C or better) or CIS 201 (grade of C or better).  
**Description:** This course is a continuation of CIS 200. It emphasizes object-oriented development using a strongly typed language. Students study the object model and apply its use to systems development problems. Topics include polymorphism, inheritance, and object interaction. Event-driven programming of graphic user interfaces is introduced. Application areas may include data structures, searching, sorting and databases. Extensive programming assignments are required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 205. Information Systems in Organizations 3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** This course helps students develop a working understanding of the differences between information systems and information technology, and how to apply those concepts to facilitate business processes successfully. Broad information systems literacy is a goal since all business majors must take this course. This course does not include computer lab sessions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 211. Operating Systems 3 Units  
**Prerequisite(s):** CIS 200 (grade of C or better) or CIS 201 (grade of C or better).  
**Description:** The course surveys basic computer architecture and operating system concepts. The student learns how the computer is built and organized, and how the operating system function to manage available resources. The course provides experience with different operating systems such as Windows XP, UNIX/Linux, and MS-DOS. Topics covered include: data representations in the computer and base conversions; the CPU and memory; instruction types; I/O facilities; computer peripherals; operating system internals; file management; programming tools; and an introduction to client/server and web-based computing and applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 215. Introduction to Computer Information Systems 2 Units  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** CIS 199 (grade of C or better) or CIS 201 (grade of C or better).  
**Description:** This course provides an overview of computer information systems and how they are used in business. It emphasizes fundamental knowledge areas and skills expected of an information systems professional. Topics include the evolution of computing equipment, a survey of types of information systems used in business, and a discussion of professional responsibilities. Students learn team building, project planning, team coordination, and project reporting techniques. Career opportunities, co-op placement, and CIS program requirements are discussed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 250. Introduction to Data and Information Management 3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** This course provides an introduction to the role of computers and other information technologies in business. Sessions in the classroom will cover the basic concepts of computer use with special attention to current technological innovation in social and business environments. Topics include technology and organizational change, telecommunications, privacy in the information age, and business security on the internet. Sessions in the computer lab will emphasize business problem solving using critical thinking techniques and commonly used analytical tools.  
**Note:** A $30 lab fee is charged for this course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 300. Computer Information Systems 3 Units  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** CIS 100 or CIS 250.  
**Description:** The study of computer information systems as they support business processes. Topics include the role of data, data manipulation, database management, information management and decision making, systems analysis and design, historical vs. current methodology in data communications, hardware and software in telecommunications, an overview of automated information systems, policies and procedures needed to protect an information system, and advanced use of spreadsheet and database software.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 305. Data Analysis for Decision-Making 3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Completion of CIS 205 (or concurrently enrolled).  
**Description:** This course provides an introduction to the role of computers and other information technologies in business. Sessions in the classroom will cover the basic concepts of computer use with special attention to current technological innovation in social and business environments. Topics include technology and organizational change, telecommunications, privacy in the information age, and business security on the internet. Sessions in the computer lab will emphasize business problem solving using critical thinking techniques and commonly used analytical tools.  
**Note:** A $30 lab fee is charged for this course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 310. Database Design 3 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** CIS 199, CIS 300.  
**Description:** This course will provide a solid and practical foundation for the design and implementation of database systems. Emphasis will be on relational database models, with significant coverage of basic relational database concepts, normalization, E-R modeling, locking, SQL, and distributed databases. Additional topics include web database, database security, access control policies and procedures, risk management, and ethical aspects of information handling. Course software includes current database tools such as SQL server.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CIS 320. Systems Analysis and Design
Term Typically Offered: Fall, Spring
Prerequisite(s): CIS 199 and CIS 300; CIS 310 (or concurrent).
Description: Introduces the fundamentals of object-oriented analysis and design, including experience with a CASE tool. Topics include requirements determination, feasibility analysis, modeling with Unified Modeling Language (UML) and data dictionary construction, data modeling and normalization, user interface requirements specification, and information security procedures. Development of problem and design specifications for an information systems project is required. Develops team skills, written and oral communication skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 350. Infrastructure Technologies
Term Typically Offered: Fall, Spring
Prerequisite(s): CIS 199.
Description: This course provides an introduction to IT infrastructure issues and covers topics related to computer and systems architecture and communication networks, with an overall focus on the services and capabilities that IT infrastructure solutions enable in an organizational context. It gives students the knowledge and skills that they need for communicating effectively with professionals whose special focus is on hardware and systems software technology and for designing processes and solutions that require in-depth understanding of the IT infrastructure capabilities and limitations. It also prepares students for interaction with external vendors of IT infrastructure components and solutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 360. Business Data Communications
Term Typically Offered: Occasionally Offered
Prerequisite(s): CIS 111 or CIS 202; CIS 115 or CIS 215; CIS 211; MATH 205.
Description: This course explores the fundamental concepts of business data communications and networking. Preliminary discussion will trace the evolution of telecommunications, its regulation over the years, laws governing telecommunications, and the role of regulatory bodies. Primary focus will be on data communications technologies and infrastructure used shared data among business organizations. Students study common network technologies and learn how to apply them to business situations. Topics include data transmission, terminal-host communication, TCP/IP, OSI model, Local Area Network (LAN) technologies, network standards, Wide Area Network (WAN), wireless communication, network management, communication security, security tools, privacy and ethics, and laws governing data communications.
Note: A student admitted prior to Fall 2004 may substitute MATH 111 (grade of C or better) for MATH 205.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 371. Excel Programming with VBA
Prerequisite(s): CIS 100 or CIS 250; CIS 300; restricted to non-CIS Business students.
Description: Practical information systems development experience using Microsoft Excel and Visual Basic for Applications (VBA). Students will learn to use Excel and VBA as a programming environment for creating information systems solutions. Topics might include an introduction to VBA, its main components and objects, and their properties, methods, and events. Through hands-on work, students will learn to develop solutions, debug, handle errors, and create custom reports.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 380. Software for Business I
Prerequisite(s): CIS 300; restricted to Accounting and Finance majors.
Description: Experience with contemporary software products used in business. Students will acquire hands-on experience using the software in analyzing business problems or in creating information systems useful in business. Software products will vary as technology evolves, and will address topics of current interest such as project management, data storage and use, decision support, and web authoring.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 381. Software for Business II
Prerequisite(s): CIS 300; restricted to Accounting and Finance majors.
Description: A continuation of CIS 380 for students seeking additional experience with contemporary software products.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 390. Special Topics
Term Typically Offered: Occasionally Offered
Prerequisite(s): CIS 199.
Description: Practical information systems development experience using contemporary PC programming tools and environments. Topics will vary as technology evolves, and will include topics of current interest such as network administration, Rapid Application Development, and World Wide Web development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 391. Windows Network Administration
Grading Basis: Pass/Fail
Prerequisite(s): CIS 111 or CIS 202; CIS 115 or CIS 215; CIS 211; restricted to CIS students.
Description: Practical network administration experience using Microsoft’s client/server operating system. Students will learn to perform fundamental network administration and installation tasks. Topics might include account policies, network resources, permission for files and folders, printer environments, partitions, network transport protocols, and network services. Through hands-on work, students will learn to install and configure the operating system, create user and group accounts, monitor and manage network resources, and install and configure network services.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CIS 392. VB NET Programming 1.5 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CIS 111 or CIS 202; CIS 115 or CIS 215; CIS 211; restricted to CIS students.
Description: Practical information systems development experience using Microsoft VB NET. Students will develop logical problem solving skills and methods for translating a problem description into appropriate logic structures and coding statements. Topics might include programming constructs, variables, arrays, procedures, commonly used VB controls, menus, and database access. Through hands-on work, students will develop proficiency with programming logic, event-driven programming, objects and their use, and Windows application development.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 396. Zero-Credit Internship-Computer Information Systems 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Occasionally Offered
Prerequisite(s): CIS 199 and CIS 300; good academic standing; validation through the Ulmer Career Management Center; students must be Computer Information Systems majors.
Description: A new workplace experience in an approved Computer Information Systems position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools. This program is available to students who have received the maximum number of co-op credit hours for their major. Application to the zero-credit internship program and completion of orientation processes should be accomplished prior to employment.
Note: This course is restricted and requires permission from the Ulmer Career Management Center.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 397. Co-op in Computer Information Systems I 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CIS 199; CIS 300; CIS majors only.
Description: A new workplace experience in an approved CIS position that continues the student’s progression of learning and opportunity for practical application of classroom concepts and tools.
Note: Usually taken concurrently with CIS 397 for a total of six hours of co-op credit for a six month, full time work place experience—students may register for CIS 397 and CIS 398 in one or two semesters.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 398. Co-op in Computer Information Systems II 1-3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CIS 397 (or concurrent); university GPA of 2.50; validation through the College of Business Co-op Office.
Description: A new or continued workplace experience in an approved CIS position which offers new learning and/or additional responsibilities that continue the student’s progression of learning and opportunity for practical application of classroom concepts and tools.
Note: Usually taken concurrently with CIS 397 for a total of six hours of co-op credit for a six month, full time work place experience—students may register for CIS 397 and CIS 398 in one or two semesters.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 399. Co-op in Computer Information Systems III 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Permission of College of Business Co-op Office.
Description: A new or continued workplace experience in an approved CIS position which offers new learning and/or additional responsibilities that continue the student’s progression of learning and opportunity for practical application of classroom theory and tools.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 410. Management of Information Systems - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CIS 310, CIS 320, and CIS 350; Senior standing.
Description: Explores strategic development of information technology; value chain analysis and its application to information resource management; information systems planning; organizing, staffing, and controlling the deployment of information technology; the development of an IT platform and architecture consistent with organizational structure.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 411. Web Application Development 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CIS 200, CIS 310, and CIS 350.
Description: This course introduces dynamic web applications and how they are developed. Students will understand the role of client-side and server-side technologies, and use web forms, various server controls and session objects to develop multipage web applications. Students will gain system development experience with current web development tools and platforms.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CIS 415. Careers in Information Systems  
1 Unit  
Grading Basis: Pass/Fail  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): CIS 310; CIS 215 or CIS 315; CIS 320; CIS 360.  
Description: Provides an assessment of the student's development as an information systems professional. The emphasis of the course is on completion and presentation of the student's information systems portfolio. Career development activities include: resume preparation and review, career planning, professional information systems organizations and networking, and lifelong learning opportunities. Taught on pass-fail basis.  
Note: Students are encouraged to enroll in this course during their last semester of CIS coursework.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 420. CIS Development Project  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): CIS 310, CIS 320 and CIS 350.  
Description: A continuation of CIS 320, this course focuses on the detailed design and implementation phases of the system development life cycle, including user acceptance testing, test planning, design reviews, and change procedures. Specifications created in CIS 320 are used to implement, test, and install a working version of an information system. System deployment emphasizes a web-based architecture. A prototyping approach is taken to develop and test the system in an iterative manner. Students are grouped into project teams, and each team member accepts task assignments necessary to deliver the information system prototype.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 430. User Interface Design  
3 Units  
Prerequisite(s): CIS 320.  
Description: This course provides a conceptual basis and practical guidelines for the design and development of graphical user interfaces. The course introduces Human-Computer interaction and human factor concepts. Design emphasis is placed on effective information presentation and usability concerns. Development of prototype user interfaces using contemporary GUI software, such as Visual Basic or Web development tools is required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 440. Object-Oriented Methods  
3 Units  
Prerequisite(s): CIS 310; CIS 215 or CIS 315; CIS 320; CIS 360.  
Description: Information System analysis, design, and implementation using the object-oriented paradigm. Topics include inheritance, encapsulation, and polymorphism, and their use in design and implementing effective object-oriented systems. Exposure to an object-oriented CASE tool and programming with object-oriented language, such as C++, are expected.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 444. Data Analytics  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): BSTA 201 or BSTA 301.  
Description: This course reviews and builds on the fundamental statistical concepts and techniques covered in the undergraduate Business Statistics course. Students will learn to model data and use analytical skills to solve real business problems. Topics include exploratory data analysis, estimation, statistical inference about populations, hypothesis testing, ANOVA, linear and multiple regression, and logistic regression.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 445. Data Mining  
3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): BSTA 201 or BSTA 301; CIS 310.  
Description: This course introduces basic data mining concepts and techniques and the application of data mining to business problems. Topics include data preparation, feature selection, predictive modeling, classification, clustering, evaluation, validation and scalability. The emphasis will be on the application of data mining techniques to problems in a business context. While there will be discussion about use of data mining tool and common techniques, the mathematics behind those techniques will not be the focus of this course. Data mining techniques about both structured and unstructured data (such as natural text) are discussed. Heavy use of a leading data mining software (e.g., SAS, SPSS) is expected.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 446. Business Analytics  
3 Units  
Prerequisite(s): CIS 444.  
Description: This course provides a hands-on learning experience using advanced statistical tools (e.g., SAS and SPSS) that can be leveraged to work with structured data and generate business knowledge. This course covers sophisticated techniques, such as predictive modeling, time-series analysis, and growth modeling. After taking this course, students are expected to be able to: (1) solve common analytical business problems; (2) think systematically about if and how data can help make better-informed decisions; (3) and use business analytical tools.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 447. Advanced Business Analytics  
3 Units  
Prerequisite(s): CIS 445 and CIS 446.  
Description: This course teaches students how to use state of the art analytical tools (e.g., Hadoop, SAS Enterprise Miner) to handle data that comes in a variety of forms and sizes in more complex, less structured business situations. Students will participate in extensive hands-on work solving realistic business problems. This course guides students with handling optimization models, Monte Carlo simulations, and decision analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CIS 450. Artificial Intelligence and Expert Systems 3 Units
Prerequisite(s): CIS 310; CIS 215 or CIS 315; CIS 320; CIS 360.
Description: Survey of AI/ES technologies and their application to the business environment. Topics include inference methods, inference engines, and knowledge bases. Development of an AI prototype, using expert system technology or neural network technology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 455. Computer Ethics, Social Issues and the Law 3 Units
Prerequisite(s): CIS 150 and CIS 300.
Description: Provides an introductory examination of the ethical, social, and legal aspects of computing. Topics include responsibilities for computer professionals, intellectual property, privacy, social interaction in electronic forums, policy and other current issues. Case studies, in-class discussion, and position papers are used extensively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 460. Advanced Networking 3 Units
Prerequisite(s): CIS 360.
Description: This course will cover material relating to network primarily, with several hands-on lab sessions using Cisco and other routers. The principal topics to be covered are: TCP/IP architecture, OSI 7-layer model, IP addressing, Subnet masking, study of protocols such as RIPv2, BGP, IGRP; IS-IS, X.25, ATM, ARP, OSPF, and networks such as DEC-net and AppleTalk. We will also discuss concepts involving hub, bridge, switch, router, cabling, Voice over IP; Telnet, FTP, Frame Relay, Virtual LAN, network security, security policies and procedures, and risk analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 465. Advanced Cobol 3 Units
Prerequisite(s): CIS 310; CIS 215 or CIS 315; CIS 320; CIS 360.
Description: Analysis, design and implementation of advanced business information systems using the COBOL programming language. The course focuses on the COBOL 85 standard and covers aspects of the previous COBOL 74 standard so that students have the abilities needed to maintain and modify older “legacy” systems. Topics covered include: array processing and multilevel tables; advanced file sorting, merging, and searching; indexed and interactive file processing; subroutines; ALL statement; COPY statement; VSAM file concepts; and CICS and SQL concepts. The IBM COBOL compiler is used on a system running under the VM/CMS operating system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 475. Enterprise Internet Computing 3 Units
Prerequisite(s): CIS 310; CIS 215 or CIS 315; CIS 320; CIS 360.
Description: Provides a framework to understand and evaluate current and emerging Internet-based technologies. The focus of the course is on understanding, designing, and implementing enterprise-level Internet systems. These secure, robust, scalable, and integrated solutions will be implemented using current web services architecture, such as J2EE. Case studies and projects provide hands-on exposure to these technologies and their applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 480. Introduction to Network Security 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): CIS 350, CIS 481.
Description: Basic concepts of networking, operations security, protocol features for security, transmission security, packet filtering, TCP wrappers, firewalls, computer viruses, physical protection, legal protection, liability issues, significance of National Security Directive 42, implications of Computer Security Act, CERT recommendations, assessment of threats and vulnerabilities of systems, security countermeasures, contingency planning, disaster recovery, risk management, and auditing and monitoring, policies and procedures dealing with storage and disposition of sensitive data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 481. Introduction to Information Security 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): CIS 320.
Description: Basic notions of confidentiality, integrity, availability, authentication models, protection models, security kernels, audit, intrusion detection, operational security issues, physical security issues, security system life cycle management, personnel security, policy formation and enforcement, trust modeling, risks and vulnerabilities assessment, basic issues of law and privacy, trade secrets, employee covenants, copyright, database protection, software and hardware validation, verification and certification.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 482. Introduction to Cryptography 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CIS 300; MATH 180 or MATH 205 or EAC 101.
Description: Basic concepts of cryptography, historical ciphers, modern symmetric ciphers such as DES, public key cryptography (RSA, elliptic curve cryptosystems), efficient hardware and software implementations of cryptographic primitives, copyright protection (including the Digital Millennium Copyright Act), requirements for implementation of cryptographic modules, data integrity and authentication, digital signature schemes, key exchange and key management, standard protocols for secure mail, electronic payments, security aspects of mobile communications, key escrow schemes, Smart cards, and social implications of new technologies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 483. Introduction to Database Security 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CIS 310 and CIS 481.
Description: Basic data protection methods such as discretionary and mandatory access controls, secure database design, data integrity, secure architectures, secure transaction processing, information flow controls, and auditing, copyright and database protection, privacy issues (including employee records and HIPAA). Security models for relational and object-oriented databases, security of databases in a distributed environment, survey of commercial systems, and research prototypes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CIS 484. Computer Forensics  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** CIS 350 and CIS 481.  
**Description:** Basic computer forensics concepts involving evidence collection, preservation, and presentation in court. Technology tools to analyze files, implications on privacy, ethics, policies, risk management and legal aspects will be covered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 490. Special Topics in Computer Information Systems  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** CIS 310, CIS 320, and CIS 350.  
**Description:** Explores contemporary topics of current interest in information systems, such as emerging telecommunications technologies, decision support, end-user computing, and distributed database management.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 499. Independent Study Computer Information Systems  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** CIS 310, CIS 320, and CIS 350.  
**Description:** Written proposal must be sponsored by at least one faculty member and approved by the Department Chair.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 500. Computer Concepts for Managers  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** ISDP 154 and ISDP 155; CIS 300.  
**Description:** Fundamentals of application based software including spreadsheet, data manipulation and reporting, presentation graphics, and public network access.  
**Note:** Pass/fail grading.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Criminal Justice (CJ)**

CJ 160. Technology Forensics: Core Hardware Issues  
**Term Typically Offered:** Occasionally Offered  
**Description:** This course is an introduction to computers as evidence sources and focuses on the installation, configuration, upgrading, troubleshooting and forensics possibilities of computer components.  
**Note:** Competency testing available.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 161. Technology Forensics: Operating Systems  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** CJ 160.  
**Description:** This course is an introduction to computers as evidence sources and focuses on the installation, operation and forensics possibilities of operating systems of computing devices.  
**Note:** Competency testing available.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 162. Technology Forensics: Network  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** CJ 161.  
**Description:** This course is an introduction to computers as evidence sources and focuses on the installation, operation and forensics possibilities of network systems of computing devices.  
**Note:** Competency testing available.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 200. Crime and Justice in the United States - SB  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** This course focuses on the various processing stages, practices, and personnel in the criminal justice system. This course examines the problem of crime in American society. Both historical and contemporary components of the system, including the police, the courts, and correctional agencies are explored. This course is designed to provide the student with a broad-based understanding of both the effects of crime upon communities as well as the criminal justice system’s response to crime in our contemporary society.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 201. Law Enforcement in the United States - SB  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** The course focuses on evolution of policing including the history, policing paradigms, police organizations, and emerging issues in policing. This course examines the role of the police in the United States. Historical and modern forms of policing will be explored. The course provides students with a broad understanding of the role and function of the police in America.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 202. Corrections in the United States - SB  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** This course is designed to provide an introduction to the history, practices, and issues related to the correctional function in American criminal justice. Topics included are: history of prisons; inmate subcultures and institutions; correctional issues such as overcrowding, stress, sexual violence, and administrative problems. Both adult and juvenile corrections will be covered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 250. Investigative Interviewing & Testimony 3 Units
Term Typically Offered: Occasionally Offered
Description: An introductory course dealing with the principles and practices of interviewing. The course will include a review of interviewing theory and practical exercises intended to enable students interested in public service to gather information and make observations more effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 300. Career Development and Cultural Intelligence - D1, SB 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): CJ 200.
Description: Perspective on career development in the field of criminal justice through awareness of cultural diversity also known as cultural intelligence.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 301. Introduction to Computer Forensics and the Analysis of Digital Media 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 160, CJ 161, and CJ 162; or consent of instructor.
Description: This course introduces students to the collection, preservation, presentation and preparation of computer-based evidence for the purposes of criminal law enforcement or civil litigation. These activities define the central roles of computer forensic practitioners involved in investigating computer crime scenes and torts involving computers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 305. Criminal Behavior 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An introduction to the theory, research, and findings of biological, psychological and sociological studies of criminality. Topics included are: the history of criminal theories; societal reactions to crime; deviant subcultures; and criminal organizations and institutions in society.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 306. Criminal Procedure 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A course designed to provide an in-depth understanding of the procedural aspects involved in developing and prosecuting or defending criminal cases. The course focuses on the Constitutional issues involved during the various aspects of a criminal case, from investigation to arrest through trial and appeal. The concept of due process is examined. Specific attention is focused on the rights and limitations offered the prosecution and defense under the Bill of Rights.
Topics included are: lineups, searches, arrests, "stop and frisk," bail extradition, preliminary hearings, arraignment, trials, sentencing, appeals, probation, parole, and the death penalty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 325. Research Design 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CJ 200 or consent of instructor.
Description: An advanced study of the principles, data sources, and methods appropriate for criminal justice. Topics included are: library research; research design, sampling, scaling; questionnaire construction; and survey research, interviewing, and participant observation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 326. Quantitative Analysis - QR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Appropriate placement score or equivalent coursework.
Description: An introduction to the applications of quantitative research methods to the analysis of criminal justice practices and data. Emphasis is placed on the calculation, application and interpretation of statistical measures generated by computer software such as SPSS. Topics included are: measures of central tendency and dispersion; theories of probability and the normal curve; and parametric and nonparametric significance tests used in criminal justice research.
Note: Credit may not be earned for this course and MATH 109, PSYC 301, SOC 301, or MGMT 201.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 335. Court Administration 3 Units
Term Typically Offered: Occasionally Offered
Description: An intensive study of court organization, administration, and management from the professional court administrator’s viewpoint. Topics included are: the history and evolution of court systems; functions of courtroom management; case flow management; and administration of both trial and appellate judicial offices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 352. Sex Crimes 3 Units
Term Typically Offered: Fall, Spring
Description: An interdisciplinary study of the sex offender and crimes related to sexual conduct. Topics included are: sexual deviancy in society; the description and treatment of offenders; and the role of societal values and institutions on sexual behavior, norms, and mores.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 354. Crime and the Media 3 Units
Description: The course covers the portrayal of crime in the mass media and examines how the media provides a distorted image of the true reality of crime and criminal justice, which in turn distorts public perception. This course will analyze how crime is socially constructed through media coverage and how mass mediated mis-perceptions of the reality of crime and criminal justice affect the actual operation of the various components of the criminal justice system and public policy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 355. Criminalistics
Term Typically Offered: Fall, Spring
Description: A survey of techniques, procedures and analysis of scientific crime investigation. Topics included are: the history of the scientific investigation of crime; research techniques in crime investigation and analyses including statistical and computer application; and the prosecutorial process and the role of scientific expertise.

CJ 360. Juvenile Justice
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CJ 200 or CJ 202.
Description: A study of the theories and philosophies underlying the evolution and maintenance of the juvenile justice system in America as well as the structure and processes of the contemporary juvenile justice system. Topics included are: the history of the juvenile and the legal system; issues in juvenile justice; and the roles of the police, courts, and corrections in implementing the juvenile justice model.

CJ 356. Crime Prevention
Term Typically Offered: Fall Only
Description: An intensive study of the criminological and environmental theories and methods of crime prevention and reduction. Topics included are: the history of crime prevention approaches and theories; program development; case studies and research in crime prevention; and the overall problem of loss prevention management in the United States.

CJ 358. Private Security Management
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 200 or consent of instructor.
Description: An intensive study of the management functions of a private security agency. Topics included are: agency structure; personnel; legal status; budgeting; and supervision of a private security firm.

CJ 365. Community Corrections
Term Typically Offered: Summer Only
Prerequisite(s): CJ 200 and CJ 202.
Description: Origins and evolution of correctional programs that function outside of total institutions. Topics included are: diversion programs, probation, parole, boot camps, home incarceration, electronic monitoring, halfway houses, and other community based initiatives for adult and juvenile offenders.

CJ 366. Introduction to Internet and Network Investigations
Term Typically Offered: Fall, Spring
Description: This course will cover network monitoring and measurement tools for network traffic collection and investigation, and data processing and forensics technologies for Internet based applications. The second part of the course will explore advanced topics in network security and forensics.

CJ 370. Police Administration
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 201 or consent of instructor.
Description: An intensive study of police organization and administration. Topics included are: the history of police organization; the political environment of law enforcement agencies; the police function in other societies and cultures; and a survey of management functions.

CJ 390. Criminal Court Procedures
Prerequisite(s): CJ 306 or consent of instructor.
Description: An intensive study of criminal due process and legal procedures from apprehension to sentencing. Topics included are: federal and state processes of disposition; bail systems; extradition; preliminary hearing; arraignment; trial; appeals; sentencing; probation; parole; and release.

CJ 395. Criminal Law and Evidence
Term Typically Offered: Fall, Spring, Summer
Description: Principles of criminal liability and the legislative and judicial processes by which acts and omissions are criminalized, investigated, and prosecuted. Topics include: crimes against persons, crimes against property, victimless crimes, and white collar crime. Exploration of issues related to legal capacity, defenses, and insanity. State and federal criminal rules of evidence identified and used to explain specific evidentiary issues relating to criminal law.

CJ 400. Legal Issues in Corrections
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 200, CJ 202, and CJ 306; or consent of instructor.
Description: An overview of legal issues concerning the constitutional rights of the convicted offender. Topics included are: impact of court decisions upon correctional personnel and administration; use of force; rights of visitation; use of mail, solitary confinement, religion, legal services; probation and parole regulations; right to treatment; and civil liabilities of correctional officials.

CJ 535
CJ 536
CJ 403. Prisons and Jails in the United States
Term Typically Offered: Fall Only
Prerequisite(s): CJ 200 and CJ 202; or consent of instructor.
Description: Issues involved in the design and operation of correctional institutions. In-depth examination of prison and jail construction and design, administration and management, career opportunities, programming needs, inmate culture and subculture and the interplay of legislative and case law.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 405. Crimes Against the Elderly
Description: Course examines federal and state laws designed to protect the older adult population; topics include types of abuse, victim advocacy, perpetrator prosecution, community resources and protection services.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 406. Crime Victims and Victimization
Term Typically Offered: Occasionally Offered
Description: Overview of crime victimization and the criminal justice system response to crime victims.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 415. Substance Abuse, Crime and Criminal Justice
Term Typically Offered: Fall, Spring
Prerequisite(s): CJ 200 and CJ 202.
Description: Study of history, origin, extent and causes of substance abuse, focusing on relationships between substance abuse, criminal activity, and criminal justice agencies.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 420. Computer Applications in Criminal Justice
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 200 or consent of instructor.
Description: An applied introductory course to computer applications relevant to criminal justice and criminology. Topics include data collection and entry, basic data analysis, electronic research methods, and web page design with an emphasis on the use of computer software and hardware in criminal justice agencies.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 421. Organized Crime
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 200 and CJ 305; or consent of instructor.
Description: Interdisciplinary exploration of major issues related to organized crime. Topics include historical aspects, theoretical perspectives and criminal activities commonly associated with organized crime efforts.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 425. Profiling Violent Crimes
Term Typically Offered: Fall, Spring
Prerequisite(s): Junior standing or consent of instructor.
Description: Examination of the basic concept of criminal assessments of fatally violent crimes. Topics include organized and disorganized criminal personalities, stages of violent homicides, blood spatter interpretation, the process of homicide investigation, media issues, typology of violent personal offenders and various types of murderous personalities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Term Typically Offered: Fall, Spring
Prerequisite(s): CJ 200 and CJ 202.
Description: Various forms of personal violence such as spouse abuse, child physical and sexual abuse, abuse of the elderly, rape, criminal assaults and battery, abuse in the workplace, and other forms of abuse will be discussed. Special emphasis directed toward the role of the criminal justice system.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 430. Environmental Crime
Term Typically Offered: Occasionally Offered
Description: Provides an understanding of both the theoretical and practical legal issues relating to environmental CJ, including an introduction to criminological solutions to environmental problems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 435. Comparative Criminal Justice Systems - WR
Term Typically Offered: Occasionally Offered
Description: Overview of international criminal justice systems and various issues, that arise in criminal justice systems throughout the world.

Note: Approved for the Arts and Sciences Upper-Level Requirement in Written Communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 440. Human Trafficking: Critical Thinking About Modern-Day Slavery
Term Typically Offered: Fall, Spring, Summer
Description: In depth analysis of trafficking in human beings as a crime prompted by supply and demand. Content includes: definitions of human trafficking, human trafficking as a transitional crime, characteristics of the crime of trafficking in human beings and strategies to most effectively deal with this crime.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 445. Computer and Electronic Crime 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of legal policy and technical issues of computer and electronic crime. Class participation, writing, and oral presentations will be integral components of the course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 450. Internship 3-6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Permission of chair or internship coordinator.
Description: An internship in an agency that participates in the administration of justice or private security. Written reports of activities and a comprehensive summary of learning experiences will be required.
Note: Application must be made and approved prior to enrollment.
Note: Preference will be given to students currently majoring in Criminal Justice.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 460. Correctional Treatment and Rehabilitation 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 200 and CJ 202; or consent of instructor.
Description: A study of the techniques and methods employed by the correctional system in attempting to influence and to change client behavior. Topics included are: the history of offender treatment; the nature and variety of current treatment programs; studies of treatment effectiveness; and the future of treatment and rehabilitation in the United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 471. Police Administration 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Consent of department chair.
Description: A discussion of police administration, organization, and functions. Administration is approached from the points of view of a police executive and his or her principal aides. Emphasis encompasses both reality and theory. Contemporary management thought is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 473. Legal Issues in Police Administration 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Consent of department chair.
Description: Detailed analysis of legal issues in police administration and management. Emphasis on the development of policies, procedures, and practices to avoid liability resulting from administrative operations. The case method is used to study emerging trends and current issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 474. Police Supervision 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 477. Organizational Behavior in Law Enforcement 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Consent of department chair.
Description: Basic principles of human behavior with emphasis on the application of these principles to police work in organizational settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 485. Seminar in Criminal Justice - CUE, WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CJ 200, CJ 325, and CJ 326; Senior standing or consent of instructor.
Description: Senior level seminar designed to explore and discuss issues, problems, and challenges in the administration and management of criminal justice organizations.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 488. Senior Project / Practicum / Moot Court 3 Units
Prerequisite(s): CECS 568.
Description: This is a capstone course where students demonstrate the ability to incorporate the knowledge and skills from previous courses. Includes a moot court where students are required to create an exhibit for a case on which they have worked. The moot court tests students via direct examination and cross-examination in a courtroom setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 493. Police and the Community 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Senior standing or consent of instructor.
Description: Course will explore the relationship between the community and those who police it. Topics to include: the history of police and their origin, aspects of police community relations, and the paradigm of Community Oriented Policing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 495. Independent Study/Directed Readings 1-6 Units
Term Typically Offered: Fall, Spring, Summer
Description: A research project or a series of directed readings under the supervision of a full-time faculty member. Written papers based on the student’s program of study may be required. The purpose of this course is to enable students to independently pursue specialized interests in criminal justice issues and topics.
Note: Enrollment is limited and no more than 6 hours of credit may be counted towards a bachelor’s degree in Criminal Justice.
Note: Students must submit a written request, including topic of interest, to the chair.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 496. Special Topics in Criminal Justice 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A course designed to address specialized topics in criminal justice.
Note: Course topics will vary (see specific semester schedule).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 497. Honors Seminar 3 Units
Prerequisite(s): Junior standing.
Description: Intensive investigation of a major substantive or theoretical area within the criminal justice system.
Note: Restricted to honors program students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 498. Honors Seminar - WR 3 Units
Prerequisite(s): Junior standing.
Description: Intensive investigation of a major substantive or theoretical area within the criminal justice system.
Note: Restricted to honors program students.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 499. Honors Thesis - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior standing and admission to department honors program.
Description: Intensive examination of a topical area within criminal justice.
Students work individually with designated faculty advisor to develop and complete original individual research projects.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 500. Crime and Criminal Justice in the Cinema 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing.
Description: This course examines media representations of the criminal justice system in historical context and with global perspective to show the congruence and disparities between popular film and reality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 505. International Terrorism 3 Units
Term Typically Offered: Occasionally Offered
Description: Investigation of international terrorism and terrorist organizations, focusing on causes, operations, organization, funding, threats and futures. Biological, chemical, nuclear and cyberspace terrorism are explored. Features of the impact of the media on terrorism, counter-terrorism, use of technology and prevention.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 507. Crime Prevention Through Environmental Design 3 Units
Description: Introduction to the concept of Crime Prevention Through Environmental Design (CPTED). Emphasis will be placed on opportunity theories of crime and their application as well as means through which crime can be prevented using the built environment to reduced crime opportunity.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 509. Crime Analysis 3 Units
Description: Crime analysis is a fairly new topic in criminal justice education. This course provides students with an opportunity to apply theory to crime data while learning introductory techniques of crime analysis and mapping.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 516. Juvenile Justice Issues 3 Units
Description: An interdisciplinary seminar. Focuses on issues pertinent to the criminal justice system that reflect conflicting perspectives. This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 517. Gangs in America 3 Units
Description: One of the main purposes of this course is to examine one of the most polarizing, difficult to research topics in Criminal Justice: Gangs. By exploring these dynamics and connections, the course will address the history, research, legislation, and policy implications related to Gangs, and the criminal justice system’s response to Gangs. This course is divided into four points: 1) Defining Gangs, and the Historical Perspective of Gangs 2) Theoretical Basis of Gangs and Gang Involvement 3) Current Gang Trends, and 4) Gang Prevention/Intervention.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 519. Domestic and Family Violence 3 Units
Description: A course addressing issues relating to family violence, includes examination of partner abuse, child abuse, and elder abuse throughout the life-course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 520. Capital Punishment - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing or consent of instructor.
Description: Seminar of issues related to the death penalty, including: constitutional questions, the effect of death row incarceration, and public attitudes toward the death penalty. Research on Kentucky will be featured.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 521. White Collar Crime - WR  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** CJ 200 and CJ 305, or consent of instructor.  
**Description:** A study of white collar and occupational crime. Course will focus on the concept, theoretical explanations, the extent and nature of various types of white collar and occupational crime in both public and private sectors.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 522. Serial Murder  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Senior standing or consent of instructor.  
**Description:** Examination of serial murder in the United States. Topics include serial murder and its relation to race and gender; the myth of serial murder; the media and serial murder and profiling.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 523. Race and Gender Issues in Criminal Justice - WR  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Junior standing or consent of faculty.  
**Description:** This course will study the dynamics of racial discrimination and racial disparity in the U.S. and how it affects the criminal justice system.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 530. Intro to Homeland Security  
**Term Typically Offered:** Occasionally Offered  
**Description:** This course outlines the philosophy, purpose, and rationale for a separate governmental agency whose primary mission is focusing on domestic security. This course will also examine issues related to international and domestic terrorism and their effect(s) on trends in homeland security.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 531. Covert Operations in Policing  
**Term Typically Offered:** Occasionally Offered  
**Description:** This course is an introduction to intelligence in policing and law enforcement with an emphasis on three key topics: 1) Developing awareness and understanding of human intelligence (HUMINT) as a primary means of collecting information required to develop intelligence for solving, predicting, and hindering crime & criminal behavior. 2) Developing skills in selecting and using analytical tools used by law enforcement intelligence and crime analysts: association and activities matrices, link analysis diagrams, social network analysis, pattern wheel analysis, mind mapping, concept map, and others. 3) Understand the critical role of planning in law enforcement and the relationship between planning, operations and intelligence.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 576. Managing Organizational Performance  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Consent of department chair.  
**Description:** Examination of factors affecting the management of organizational performance. Designed to help participants develop conceptual diagnostic and problem solving skills required of strategic managers in contemporary law enforcement organizations.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 578. Criminal Justice Leadership - WR  
**Term Typically Offered:** Occasionally Offered  
**Description:** Through the use of lectures and case studies (films), participants will be provided with a cognitive understanding of leadership that emphasizes the study of leadership models and theories. Study and evaluation of various leadership styles and processes.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 580. International Service Learning: Criminal Justice Seminar  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Approval of program director.  
**Description:** Study of criminology and criminal justice with a cross cultural perspective. Comparative criminal justice research regarding particular problems and issues in the host country will be conducted and examined. Travel outside the U.S. required.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 596. Seminar in Criminal Justice  
**Term Typically Offered:** Occasionally Offered  
**Description:** An interdisciplinary seminar. Focuses on issues pertinent to the criminal justice system that reflect conflicting perspectives.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

CJ 597. Ethics in Criminal Justice - WR  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Senior standing or consent of instructor.  
**Description:** A study of the need for ethics in criminal justice. The aims of ethics, ethical theories, ethical issues related to law making, law breaking and law enforcement.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

Criminalistics and Criminology (CC)  

CC 477. Criminal Justice Behavior Dynamics  
**Term Typically Offered:** Occasionally Offered  
**Description:** A study of the basic principles of human behavior with emphasis on the application of these principles to police work in organizational settings. Consideration is given to the dynamics of both individual and group behavior in working environments.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))
Critical and Curatorial Studies (CCS)

CCS 547. Introduction to Critical and Curatorial Studies I  3 Units  
Prerequisite(s): Consent of instructor.  
Description: An introduction to curatorial practice of the last 30 years. Focusing on the curator's increasingly prominent role in the reception and synthesis of contemporary art, the course explores developments in exhibition design in terms of art production, international exchange, globalization, and critical theory.  
Note: Cross-listed with ARTH 547.  
Note: A student may receive credit for only one of the courses: ARTH 547, CCS 547, ARTH 647, CCS 647.  
Note: Formerly Museum Methods I.  

For class offerings for a specific term, refer to the Schedule of Classes.

CCS 548. Critical and Curatorial Studies II  3 Units  
Prerequisite(s): ARTH 547, or CCS 547, or ARTH 647, or CCS 647, or consent of instructor.  
Description: This seminar is structured as a curatorial practicum. Students work with the professor to develop and produce an exhibition from the university's print collection. Throughout the semester, weekly readings and presentations focus on contemporary exhibition practice as well as on the theoretical and critical concerns undergirding the student's developing exhibition.  
Note: Cross-listed with ARTH 548.  
Note: A student may receive credit for only one of the following courses: ARTH 548, ARTH 648, CCS 548 and CCS 648.  
Note: Formerly taught as Museum Methods II.  

For class offerings for a specific term, refer to the Schedule of Classes.

Dental Hygiene Education (DHED)

DHED 101. Dental Hygiene Academic Orientation  1 Unit  
Term Typically Offered: Fall Only  
Prerequisite(s): Admission to Dental Hygiene Lower Division.  
Description: This course is designed especially for dental hygiene students. It will include understanding a career in dental hygiene, academic policies and requirements, and making use of the diverse resources offered at a metropolitan research university.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 301. Dental Hygiene Theory I  3 Units  
Term Typically Offered: Fall Only  
Description: Provides the fundamentals of scientific knowledge and clinical skills necessary for entering the clinical phase of the curriculum of dental hygiene.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 302. Dental Hygiene Principles of Practice I  2 Units  
Term Typically Offered: Fall Only  
Description: This course is a laboratory course teaching students the concepts and principles of dental instrumentation.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 303. Dental Anatomy  2 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): Students must have completed or be in the process of completing all of the prerequisite courses.  
Description: Nomenclature, morphology, structure, function and occlusion of teeth.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 304. Radiography  2 Units  
Term Typically Offered: Fall Only  
Description: History and development of the x-ray, its nature and properties, safety precautions, and uses of the x-ray in dentistry. Theory in the fundamentals of oral radiographic technique, darkroom processing, and dental radiographic analysis.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 305. Structural Biology of Head and Neck  3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): Acceptance into the Dental Hygiene Program.  
Description: Origin and structure of tissues, histology and embryology of teeth, face and oral cavity. Biochemistry as it relates to oral structures. Study of anatomy of oral structures.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 306. Microbiology  3 Units  
Term Typically Offered: Not Offered  
Prerequisite(s): Acceptance into the Dental Hygiene Program.  
Description: Designed to acquaint the dental hygiene student with the basic principles of microbiology, history, taxonomy, cytology, physiology, metabolism, sterilization and disinfection, chemotherapy, normal microbial flora, parasitism and infectious disease, immunology and hypersensitivity; study of specific microbial diseases and their causative agents; microbial flora of the oral cavity, dental caries, periodontal disease, infections of tooth pulp and periapical tissues and local infection.  
For class offerings for a specific term, refer to the Schedule of Classes.

DHED 307. Physical Diagnosis and Medical Management  3 Units  
Term Typically Offered: Fall Only  
Description: Course teaches clinical patient evaluation, emphasizing medical histories and vital signs. Students learn to recognize and manage patients who need treatment and modifications or special precautions for safe dental care.  
For class offerings for a specific term, refer to the Schedule of Classes.
DHED 308. Pre-Clinical Radiography  
Term Typically Offered: Spring Only  
Prerequisite(s): DHED 304.  
Description: Laboratory experiences in film placement, film mounting, exposure and processing techniques. Application of the techniques of radiographic surveys.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 309. General and Oral Pathology  
Term Typically Offered: Spring Only  
Description: Study of disease mechanisms affecting the human body, with particular emphasis on diseases of the oral and paraoral structures. Clinical diagnostic criteria are emphasized and correlated with pathological entities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 310. Periodontology  
Term Typically Offered: Spring Only  
Prerequisite(s): DHED 306 and acceptance into the Dental Hygiene Program.  
Description: An understanding of the etiology, mechanisms and processes involved in periodontal disease. Emphasis on integration of research findings to provide evidence-based periodontal therapy.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 311. Dental Materials  
Term Typically Offered: Spring Only  
Prerequisite(s): Acceptance into the Dental Hygiene Program.  
Description: Physical properties of dental materials and basic principles of their preparation. Students work on typodonts placing rubber dams, applying matrices, inserting bases and restorative materials in anterior and posterior prepared teeth. Polishing of restorations and taking impressions for diagnostic study models are introduced.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 312. Oral Health Education  
Term Typically Offered: Spring Only  
Description: Course addresses theories and principles of health education, assessment and evaluation techniques, and teaching strategies with regard to oral health education. Will include information specific to selected topics such as tobacco cessation, nutritional counseling, and community health education.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 313. Dental Hygiene Theory II  
Term Typically Offered: Spring Only  
Prerequisite(s): DHED 301.  
Description: This course is a continuation of DHED 301.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 314. Dental Hygiene Principles of Practice II  
Term Typically Offered: Spring Only  
Prerequisite(s): DHED 302.  
Description: This course is the laboratory continuation and beginning clinical component of Dental Hygiene Principles of Practice I.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 315. Pain and Anxiety Control  
Term Typically Offered: Summer Only  
Prerequisite(s): Acceptance into the Dental Hygiene Program.  
Description: Provides basic understanding in the use of local anesthesia and anxiety management techniques for the control of pain and anxiety in the clinical practice of dental hygiene.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 316. Community Dental Health I  
Term Typically Offered: Fall Only  
Description: Course provides students with an overview of the dental health care system, introduces students to epidemiologic study methodologies, explores selected dental public health practices and introduces basic skills in program planning.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 402. Pharmacology  
Term Typically Offered: Fall Only  
Description: Course focus is drugs and anesthetics, with emphasis on those used in the dental office. Discussion of the origin of drugs and anesthetics, physical and chemical properties, preparation, mode of administration and effects on body systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 403. Evidence Based Practice  
Term Typically Offered: Fall Only  
Prerequisite(s): Acceptance into the Dental Hygiene Program.  
Description: This course is designed to provide students with the analytical skills needed to interpret and evaluate studies that include the collection and analysis of data. The course focuses on research design, and descriptive and inferential techniques commonly used research activities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 404. Special Needs Patients  
Term Typically Offered: Fall Only  
Description: Course teaches students about the management of dental patients with a variety of physical, emotional, and psychosocial needs. Will include information about the demographic and sociological trends concerning the elderly and will relate those trends to the dental care delivery system.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
DHED 405. Advanced Periodontology I
Grading Basis: Pass/Fail
Term Typically Offered: Fall Only
Prerequisite(s): DHED 310.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 406. Community Dental Health II
Term Typically Offered: Fall Only
Prerequisite(s): DHED 316.
Description: Course focuses on skills development in assessment, planning, implementation, and evaluation of dental public health programs. Will include practicum to enhance student experience in program planning skills.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 407. Advanced Technology and Patient Care Procedures I
Term Typically Offered: Fall Only
Description: Correlation of medical conditions to dental hygiene treatment utilizing both lecture and case study seminars. Emphasizes the application of information technology to improve the management of diagnostic data.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 408. Dental Hygiene Principles of Practice III
Term Typically Offered: Fall Only
Prerequisite(s): DHED 314.
Description: Continuation of DHED 314 including rotations to dental clinics in other facilities to further acquaint students with diverse oral and medical conditions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 409. Clinical Radiography I
Term Typically Offered: Fall Only
Prerequisite(s): DHED 308 and DHED 304.
Description: Clinical application of radiography and radiology. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 410. Advanced Radiology
Term Typically Offered: Spring Only
Prerequisite(s): DHED 409.
Description: This course teaches advanced extra oral radiography, advanced interpretation and introduction into radiographic case studies. Some campus visits are required to complete the course requirements.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 411. Clinical Radiography II
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): DHED 409.
Description: Continuation of Clinical Radiography I. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 412. Dental Hygiene Principles of Practice IV
Term Typically Offered: Spring Only
Prerequisite(s): DHED 314 and DHED 408.
Description: Continuation of DHED 408. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 413. Advanced Periodontology II
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): DHED 407.
Description: Continuation of DHED 407. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 414. Advanced Technology and Patient Care Procedures II
Term Typically Offered: Spring Only
Prerequisite(s): DHED 407.
Description: Continuation of DHED 407. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 415. Dental Hygiene Ethics and Practice Management
Term Typically Offered: Spring Only
Description: Role of the dental hygienist as related to the health professions and to the dental hygiene association; relationship of the dental hygienist to members of the health team; principles of professional ethics, laws, rules and regulations covering the practice of dental hygiene and dentistry; introduction to the administration and management of a dental health team.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

DHED 417. Dental Hygiene Extramural Education - CUE
Term Typically Offered: Spring Only
Description: Extramural clinical rotation that affords the student an opportunity to provide patient care and community service projects within a health care delivery system.

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Economics (ECON)

ECON 201. Principles of Microeconomics - SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An introduction to the supply and demand model of price determination. Includes a theoretical treatment of consumer and producer behavior, a study of industrial structures, and the economic foundation for public policy. Topics may include pricing decisions, entrepreneurship, labor markets, taxation, foreign exchange rates, and advertising.
Note: May be taken before ECON 202.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 202. Principles of Macroeconomics - SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An introduction to the U.S. economy, including long-term structural developments and short-term fluctuations. Theoretical models are presented to explain changes in national output, the price level, employment, and unemployment. Competing macroeconomic models are examined and contrasted. The models provide a framework for studying fiscal and monetary policy, and the effectiveness of macroeconomic policy during recent economic history is evaluated.
Note: May be taken before ECON 201.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 301. Intermediate Microeconomics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECON 201 and ECON 202.
Description: A more advanced treatment of the foundations and applications of microeconomic theory. The standard model of consumer and producer behavior is presented, with a rigorous examination of assumptions and deductions. The model is used to describe market determination of price and quantity of goods and services. Different industrial structures are studied, and the analyses are used to evaluate government policies that affect economic behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 302. Intermediate Macroeconomics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECON 201 and ECON 202.
Description: A survey of macroeconomic theory with emphasis given to the evolution of the various models that attempt to explain the growth in national output and the price level. Both static and dynamic models are studied. Applications cover both historical and current macroeconomic problems, for the United States and the world economy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 312. Urban Economics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: Economic theory with a spatial dimension, as applied to urbanized regions. Topics include: land rents, population density, housing markets, distribution of office and manufacturing activity, labor markets, education, public safety, transportation, and economic development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 321. Money and Banking 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: An introduction to the role of money and financial institutions in the economy. An emphasis is placed on the role of the central bank in money creation and the implementation of monetary policy. Analysis of impacts and developments of current financial regulations in a global financial world.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 331. Labor Economics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECON 201 and ECON 202.
Description: Applies microeconomic theory to the labor market. Emphasis is on the effect of government policies such as minimum wages and welfare reform on individual welfare. Other topics include human capital investments, wage/non-wage trade-offs, and unemployment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 341. Public Finance 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: The use of microeconomic theory to examine the effects of government taxation and spending. Topics include externalities, public goods, tax and expenditure incidence, cost-benefit analysis, and optimal tax policy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 342. State and Local Government Finance 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): ECON 201 and ECON 202.
Description: A systematic application of microeconomic theory to decisions involving demand, production, cost, supply and financing of state and local public services. Also addresses current theoretical and policy issues in the area of intergovernmental fiscal relations, the incidence of state and local taxes and expenditures, the reform of structure and reform of state and local debt.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECON 350. The Economics of Entrepreneurship 3 Units
Prerequisite(s): ECON 201 and ECON 202 and Junior standing.
Description: The application of economic theory to business decision making, with an emphasis on new venture creation. Topics include history of entrepreneurship and entrepreneurial thought, the economics of risk and uncertainty, innovations, economic growth, and industrial studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 355. Health Economics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECON 201 and ECON 202.
Description: Examines health care issues by applying microeconomic theory. Particular emphasis on health insurance, managed care, health care production and physician services.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 356. Environmental Economics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course will give basic insights into why environmental damages and degradation arise, and how such market failures may be addressed. The course covers topics such as environmental valuation, property rights and externalities, sustainable development, poverty and the environment, trade and the environment, climate change policies, and population growth.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 357. Public Choice and Political Economy 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECON 201 and ECON 202.
Description: This course studies markets, public goods, externalities, and efficiency. Additional topics include voting, redistributive politics, regulation, social justice, political behavior and public policy, coalition bargaining, and lobbying.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 358. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 359. Economics Colloquium 1 Unit
Term Typically Offered: Fall, Spring, Summer
Grading Basis: Pass/Fail
Prerequisite(s): ECON 201 and ECON 202.
Description: This is a one-hour course in Economics that is conducted as a reading course. Students are assigned readings that are discussed in class.
Note: May be taken up to three times if different course reading assignments are made.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 360. Law and Economics 3 Units
Term Typically Offered: Fall Only
Grading Basis: Pass/Fail
Prerequisite(s): ECON 201 and ECON 202.
Description: This course will explore the field of law and economics. Standard microeconomic tools are used to examine torts, contracts, and property as well as theory and empirical evidence on criminal behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 365. Public Choice and Political Economy 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 366. Environmental Economics 3 Units
Term Typically Offered: Fall Only
Grading Basis: Pass/Fail
Prerequisite(s): ECON 201 and ECON 202.
Description: This course will give basic insights into why environmental damages and degradation arise, and how such market failures may be addressed. The course covers topics such as environmental valuation, property rights and externalities, sustainable development, poverty and the environment, trade and the environment, climate change policies, and population growth.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 367. Public Choice and Political Economy 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 368. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 370. Public Choice and Political Economy 3 Units
Term Typically Offered: Occasionally Offered
Grading Basis: Pass/Fail
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 371. Public Choice and Political Economy 3 Units
Term Typically Offered: Occasionally Offered
Grading Basis: Pass/Fail
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 372. Public Choice and Political Economy 3 Units
Term Typically Offered: Occasionally Offered
Grading Basis: Pass/Fail
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 373. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 374. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 375. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 376. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 377. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 378. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 379. Capitalism and Economic Freedom 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: This course examines the historical foundations, different views, and the outcomes of capitalism. The course compares economic freedom and growth among countries. Arguments against and defenses of capitalism are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 380. Introduction to Econometrics 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ECON 201, ECON 202, and BSTA 301.
Description: A study of the theory and application of econometric analysis. Topics include simple and multiple linear regression, correlation, and hypothesis testing. Both conceptual and practical problems are considered, including multicollinearity, heteroscedasticity, and measurement errors. An introduction to simultaneous equation estimation is also presented.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECON 398. Co-op in Economics II  
Grading Basis: Pass/Fail  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Completion of ECON 397, University GPA 2.5 and validation through the College of Business Co-op Office.  
Description: A new or continued workplace experience in an approved Economic position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 399. Co-op in Economics III  
3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Permission of the College of Business Co-op Office.  
Description: A new or continued workplace experience in an approved Economic position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 401. Mathematical Economics  
3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): MATH 205 and ECON 301; or faculty consent.  
Description: The mathematical tools of modern economics, illustrated with economic applications. Topics include the calculus of optimization problems, linear algebra, equilibrium conditions for systems, dynamic models, difference and differential equations, and mathematical programming.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 402. Econometrics II  
3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ECON 301, ECON 380, and MATH 205.  
Description: This course reviews statistical inference using multiple regression (OLS) analysis and model specification. Additional topics include panel data methods, instrumental variables, two-stage least squares with IV methods, simultaneous equations models, limited dependent variable models using MLE and presentation of results in technical presentations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 410. Advanced Price Theory  
3 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): ECON 301, ECON 302, and MATH 205.  
Description: This course extends the formal analysis of microeconomic theory to include market imperfections covering monopoly power, agents with limited information, externalities, and choice under uncertainty. Extensions also include an introduction to macroeconomic modeling relying on explicit microfoundations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 414. Applied Financial Econometrics  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): FIN 301 or faculty consent.  
Description: Econometric application of economic and financial concepts and principles related to corporate finance, investments, financial markets, and internationals finance. Quantitative techniques include time series analysis, exponential smoothing, and regression analysis.  
Note: Cross-listed with FIN 414.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 421. History of Economic Thought  
3 Units  
Term Typically Offered: Spring, Summer  
Prerequisite(s): ECON 201 and ECON 202.  
Description: An exploration of the theory and method of economic analysis and the emergence of economic thought. Covering ancient times to the present, study centers on mercantilism, classicism, marginalism, neoclassicism, and contemporary thought. Attention is given to the context of the framework of ideas that surrounded economists’ theoretical contributions. Alternative approaches, such as Austrian economics and historicism are also examined.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 431. International Trade  
3 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): ECON 201 and ECON 202.  
Description: An introduction to international trade theory, the balance of payments, foreign exchange markets, and trade policies between countries. The postwar problems, international agencies, and the changing structure of international trade are discussed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
ECON 433. Financial Markets and Institutions  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): FIN 301.  
Description: This course provides a study of financial institutions such as banks and financial instruments and markets such as the stock, bond, money and mortgage markets. The course integrates macro-economic concepts such as interest rate determination and the role of the Federal Reserve with asset valuation and the movement of capital in the financial marketplace. Commercial bank financial statements and key risks are covered. Periods of financial crises are also examined. Options, futures and swaps are discussed in the context of hedging risks in banks and other types of firms. The course builds heavily on the concepts of time value of money and risk and return, as developed in previous courses.  
Note: Cross-listed with FIN 433.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECON 439. Emerging Market Economies 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ECON 201 and ECON 202.
Description: The organization and operation of Soviet-type and developing-world economies. Both theory and practice are examined. The nature and goals of the planning process, resource allocation, public finance, pricing and foreign trade are discussed. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 442. Public Policy and Industrial Organization 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ECON 201 and ECON 202.
Description: Economic analysis of different market structures including study of price behavior, cost and profit, and economic welfare. Attention is also given to government policy toward the business sector, including antitrust policy, regulation of business and public ownership of business. Specific attention is given to vertical integration, measurement of industrial concentration, conglomerate pricing behavior, technological innovation and its impact on market structure, and the economics of the patent system. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 475. Senior Economics Seminar - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 180 or MATH 205; ECON 301; ECON 302; and Senior status.
Description: A synthesis of theoretical and empirical training applied to a variety of economic questions. Major topics drawing from microeconomics and macroeconomics are discussed in a seminar/workshop format. A senior paper is required.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 490. Special Topics in Economics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECON 201.
Description: A variety of topics in economic theory and/or its application will be studied. Course content will vary but the content will not duplicate current offerings.
Note: A student may take this for credit more than once as long as the same topics were not already covered by the student in this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 491. Special Topics in Economics and Finance 3 Units
Term Typically Offered: Fall Only
Description: Topics of current importance to students of economics and finance will be studied. Content of course will vary but will not duplicate current offerings. This course may be repeated for credit as long as content or topics were not already covered by the student in this course.
Note: Cross-listed with FIN 491.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 499. Independent Study in Economics 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Written proposal must be sponsored by at least one faculty member and approved by the Department Chair.
Description: A special, high-level study primarily for honor students. Arrangements must be made between the student and a faculty member. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 500. Foundations of Economics 3 Units
Prerequisite(s): Consent of instructor.
Description: Survey of supply and demand analysis, cost and production, and price determination in different market organizations. Analysis of GOP, unemployment, inflation, and economic growth.
Note: Cross-listed with PLAN 500.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Education: Leadership, Foundations & Human Resource (ELFH)**

ELFH 250. A+ Certification: Core Hardware 2 Units
Grading Basis: Pass/Fail
Description: Installation, configuration, upgrading and troubleshooting computer components. Offered through distance education online, prepares student for industry certification exam.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 251. A+ Certification: Operating System Technologies 2 Units
Grading Basis: Pass/Fail
Description: Install, configure, upgrade and troubleshoot computers and computer networks. Offered through distance education online, prepares student for industry certification exam.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 252. Network + Certification 2 Units
Grading Basis: Pass/Fail
Description: Study of Internet, Intranets and Extranets infrastructure and services. Offered through distance education online, prepares student for industry certification exam.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 253. Master Certified Internet Webmaster Designer (CIW: E-Commerce Designer) 2 Units
Grading Basis: Pass/Fail
Description: Standards, technologies and practices of business-to-business and business-to-consumer models, relationship of purchasing, payment and processing on-line web enabled sites. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 254. Master Certified Internet Web Designer (CIW): Site Designer 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 253.
Description: Create and manage Web sites using HTML, Dream Weaver, Flash, Homesite, Dynamic HTML, XML, various multimedia and Commercial Site Services standards. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 255. 1 Net + 3 Units
Grading Basis: Pass/Fail
Description: Study of Internet, Intranets and Extrnets infrastructure and services. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 256. Microsoft MCDST-Supporting Users 3 Units
Grading Basis: Pass/Fail
Description: This course prepares students to support Windows operating system, the desktop environment, and basic networking. It is intended for those who support end users in the Windows desktop environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 257. Microsoft MCDST-Supporting Applications 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 256.
Description: This course prepares students to install, support, customize, and secure applications in the Windows desktop environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 258. Microsoft Certified System Engineer (MCSE) Implementing and Administering Microsoft Windows 2000 Net 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 257.
Description: Implementation and administration of a Microsoft Windows 2000 Network. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 259. Microsoft Certified System Engineer (MCSE) 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 258.
Description: Implementation and administration of a Microsoft Windows 2000 Active Directory and the associated components with Active Directory. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 260. Microsoft Certified System Engineer (MCSE) Installing, Configuring, and Administering Microsoft Exchange 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 259.
Description: Implementation and administration of a Microsoft Windows Exchange 2000 Server. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 261. Microsoft Certified System Engineer (MCSE) Installing, Configuring and Administering Microsoft SQL S 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 260.
Description: Implementation and administration of a Microsoft Windows SQL 2000 Server. Offered through distance education, prepares students for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 290. Occupational Courses 2-42 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 12 semester hours in the program courses with a B or better average in 4 courses.
Description: Vocational and occupational credit from accredited institutions such as universities, community colleges, and private and public schools accredited by agencies recognized by the National Commission on Accrediting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 291. Occupational Learning 2-48 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 12 semester hours in program courses with a B or better average in the four courses.
Description: Credit may be earned by documenting learning from experience in a teachable occupation or family of occupations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 299. Prior Learning Assessment 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Provisional admission to the program, and extensive prior work experience and /or job related college credit.
Description: Introduces students to the process/product of documentation of workplace learning and assessment of their mastery of the program standards. Must be taken within the first year.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 301. Basic Skills for Success  
Term Typically Offered: Fall, Spring, Summer  
**Description:** Introduces students to key university and program resources. Students will also assess their personal learning style in relationship to the competencies needed for success in this program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 302. Prior Learning Documentation  
Term Typically Offered: Fall, Spring, Summer  
**Prerequisite(s):** Extensive prior work experience and/or job related college credit.  
**Description:** Introduces students to the process of documentation, and creation of product for documentation, of workplace learning. Students will be able to identify appropriate standards to evaluate college-level, credit-worthy work-related learning. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 303. Self-Assessment  
Term Typically Offered: Fall, Spring, Summer  
**Description:** This course will assist students in identifying their own personal and professional competencies. Students will make connections between these competencies and the skills/competencies required for success in this program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 304. Understanding Needs Assessments  
Term Typically Offered: Fall, Spring, Summer  
**Description:** Students will be introduced to conceptual and theoretical foundations of organizational needs assessment. Particular focus will be paid to developing and understanding the basics of the needs assessment process. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 305. Identifying Needs Assessments  
Term Typically Offered: Fall, Spring, Summer  
**Description:** Students will learn the needs assessment process for gathering information related to workforce specific organizational needs. Particular attention is paid to identification of appropriate needs assessment processes. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 306. Applying Needs Assessments  
Term Typically Offered: Fall, Spring, Summer  
**Description:** Students will learn the needs assessment process. Particular attention will be paid to the steps of constructing a needs assessment tool and to applying these steps to real world situations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 307. Prior Learning Assessment for Healthcare Leaders  
Term Typically Offered: Fall, Spring, Summer  
**Description:** To provide healthcare leadership students with key university and program resources with learning the process of documentation, and creation of a product for documentation, for workplace learning. In addition, students will be able to identify their own personal and professional competencies while making connections between these competencies and the skills/competencies required for success in the program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 308. Needs Assessment in Healthcare Organizations  
Term Typically Offered: Fall, Spring, Summer  
**Description:** Students will be introduced to the conceptual and theoretical foundations and process of organizational needs assessment in healthcare organizations. Particular focus will be paid to developing an understanding of the basics of the needs assessment process. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 309. Managing Projects in Healthcare Organizations  
Term Typically Offered: Fall, Spring, Summer  
**Description:** The course provides an overview of project planning and management tools/techniques used in managing projects in healthcare organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 310. Healthcare Presentations and Group Facilitation  
Term Typically Offered: Fall, Spring, Summer  
**Description:** Develop instructional design strategies for successful healthcare work force advancement. Explore the dynamics of teams, along with groups and facilitating group decision-making through the development of meeting agendas and objectives, managing meetings, and team decision-making strategies in healthcare organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 311. Needs Assessment  
Term Typically Offered: Fall, Spring, Summer  
**Prerequisite(s):** Admission to the College of Education and Human Development  
**Description:** Needs assessment related to occupationally specific training and/or organizational needs is addressed. Students develop a proposal to conduct a needs assessment and a customized data collection instrument. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 312. Designing Learning 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the College of Education and Human Development.
Description: Development of curriculum relevant to specific job requirements in occupations. Includes development of analyses, measurable performance objectives, lesson designs and course materials.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 314. Diversity in the Workplace - D1, SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: This class examines various aspects of diversity and inclusion from a societal perspective, and within the workplace environment. Various human resource management principles will be discussed, and this course will also review, analyze, and ascertain themes of diversity including (but not limited to): race, ethnicity, culture, socio-economic status, World view, the LGBTQ community, persons with disabilities, socio-cultural factors, gender equity, legal perspectives, and social justice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 315. Supervised Work Experience Internship 3-24 Units
Term Typically Offered: Fall, Spring, Summer
Description: Includes job skills and knowledge, management-worker-union relations, supervised instruction, conferences and evaluations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 316. Instructional Strategies and Group Facilitation Techniques 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the College of Education and Human Development.
Description: Develop instructional design strategies and group facilitation techniques for education and workplace initiatives. Teach critiqued lessons to communicate knowledge and skills needed for successful work force advancement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 317. Instructional Techniques & Strategies 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Develop instructional design strategies for educational and workplace initiatives. Teach critiqued lessons to communicate the knowledge and skills needed for successful work force advancement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 318. Managing Group Dynamics 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Explore the dynamics of groups and learn how to manage them by identifying functions of groups and teams, types of groups, stages of team development, and components of teams.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 319. Facilitating Group Decision Making 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Learn how to facilitate group decision-making through the development of meeting agendas and objectives, managing meetings, and team decision-making strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 320. Related Science, Mathematics, and Technology in Training 6 Units
Prerequisite(s): At least 9 semester hours coursework in the program.
Description: May be used in the specialization component of the BS in Occupational Education with concentration in Teacher Preparation. Credit may be earned only through examination.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 321. Manipulative Skills in Occupations 6 Units
Prerequisite(s): At least 9 semester hours coursework in the program.
Description: Credit may be earned only through examination.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 322. Knowledge of Related Subjects in Training and Development 6 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): At least 9 hours coursework in the program.
Description: May be used in the specialization component of the BS in Occupational Education with concentration in Teacher Preparation. Credit may be earned only through examination.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 330. Special Needs and Technical Education 3 Units
Prerequisite(s): Admission to the College of Education and Human Development.
Description: A study of curriculum, methods, and facilities modifications necessary to meet the needs of disadvantaged and handicapped learners.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 332. Measuring and Evaluating Effectiveness 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ELFH 312 or consent of instructor; admission to the College of Education and Human Development.
Description: Theories and procedures involved in assessing the effectiveness of instructional programs and learning in the cognitive, psychomotor and affective domains.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Grading Basis</th>
<th>Graduation Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 341</td>
<td>Managing Projects in the Workplace</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the College of Education and Human Development.</td>
<td>Overview of techniques used in managing work projects. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 344</td>
<td>Project Planning Elements</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td>The course provides an overview of project management terminology, tools, and techniques used in managing a work-related project. Elements introduced are SWOT analysis, stakeholder analysis, project contract, and kickoff meeting. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 345</td>
<td>Managing Projects Effectively</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td>The course provides an overview of project management terminology, tools, and techniques used in managing a work-related project. Elements introduced include a scope document, business case, and work breakdown structure. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 346</td>
<td>Project Oversight</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td>The course provides techniques used in the oversight of a work-related project. Elements introduced are Gantt chart, communication plan, risk management, and quality management plan. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 350</td>
<td>Oracle Certified Professional Database Administrator (OCPDBA): SQL and PL/SQL</td>
<td>3</td>
<td></td>
<td></td>
<td>Implementation and understanding of Oracle relational database concepts and the use of SQL for data storage, and database manipulation. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 351</td>
<td>Oracle Certified Professional Database Administrator (OCPDBA): Architecture &amp; Administration</td>
<td>3</td>
<td></td>
<td></td>
<td>Implementation and understanding of Oracle relational database concepts and the use of SQL for data storage and database manipulation. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 352</td>
<td>Oracle Certified Professional Database Administrator (OCPDBA): Backup and Recovery</td>
<td>3</td>
<td></td>
<td></td>
<td>Implementation and understanding of Oracle backup recovery goals and functions of Oracle 8i. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 353</td>
<td>Oracle Certified Professional Database Administrator (OCPDBA): Network Administrator</td>
<td>3</td>
<td></td>
<td></td>
<td>Oracle 8i architectural; administration and centralized Naming concepts, advanced security options, concepts of encryption, authentication with Oracle 8i databases. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 354</td>
<td>Oracle Certified Professional Database Administrator (OCPDBA): Performance and Tuning</td>
<td>3</td>
<td></td>
<td></td>
<td>Deploying Oracle 8i, and fine tune operations with Oracle databases utilizing the tools and technologies with the product. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 355</td>
<td>Cisco Certified Network Professional (CCNP): Cisco Certified Network Administrator</td>
<td>2</td>
<td></td>
<td></td>
<td>Emphasis on terms, concepts, technologies and devices used in networking. Install, configure and troubleshoot Cisco switches and routers. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 356</td>
<td>Cisco Certified Network Professional (CCNP): Building Cisco Multilayer Switching Networks</td>
<td>2</td>
<td></td>
<td></td>
<td>Identify basic features of VLAN’s, characteristics of Bridge Protocol Data Units, features of the distribution layer and of external route processors. Offered through distance education-online, prepares students for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>ELFH 357</td>
<td>Cisco Certified Network Professional (CCNP): Building Cisco Remote Access Networks</td>
<td>2</td>
<td></td>
<td></td>
<td>Builds knowledge about remote access network to interconnect central sites to branch offices using WAN technologies. Offered through distance education-online, prepares student for industry certification exam. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Pass/Fail</td>
<td>University of Louisville</td>
</tr>
</tbody>
</table>
ELFH 358. Cisco Certified Network Professional (CCNP): Building Scalable Cisco Networks 2 Units
Grading Basis: Pass/Fail
Description: Primary emphasis on controlling traffic over LAN's and WAN's. Offered through distance education - online, prepares for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 359. Cisco Certified Network Professional (CCNP): Internetworking Troubleshooting Support 2 Units
Grading Basis: Pass/Fail
Description: Internetworking, troubleshooting and background understanding of routers and switches utilized for multi-protocol client hosts and servers. Offered through distance education - online, prepares student for industry certification exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 390. Advanced Occupational Courses 2-18 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 12 semester hours in the program courses with B or better average in the 4 courses.
Description: Upper level vocational credit from accredited institutions such as colleges and universities, both private and public, and other agencies recognized by the National Commission on Accrediting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 391. Advanced Occupational Learning 2-18 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 12 semester hours in the program courses with B or better average in 4 courses.
Description: Credit may be earned by documenting learning from experience in a teachable occupation or family of occupations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 401. Strategic Human Resources Management and HR Law 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Overview of the field of human resource management (HRM), and the roles and competencies required in HRM. Federal laws affecting HRM are investigated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 402. Human Resources Recruitment and Selection 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Study of the staffing function in healthcare organizations. Skills and processes needed for job analysis, recruitment, and selection are investigated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 403. Human Resource Performance Management and Compensation 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Study of the human resource functions of performance management and compensation in healthcare organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 404. Career Management 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: This course addresses knowledge, skills, and dispositions for workforce leaders in career management to maximize performance and goal attainment at individual, group, and organizational levels.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 405. Assessing Talent 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: This course addresses knowledge, skills, and dispositions for growing leaders in healthcare through talent assessment to maximize performance and goal attainment at individual, group, and organizational levels.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 406. Coaching for Performance 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: This course addresses knowledge, skills, and dispositions for workforce leaders in coaching in order to maximize performance and goal attainment at individual, group, and organizational levels.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 407. Diversity and Inclusion in the Workplace 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: To uncover aspects of diversity from cultural, workplace and global perspectives. To examine theoretical and practical means of cross-cultural understanding, inclusion, and various laws and legislation that are relevant within the workplace.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 408. Competing Perspectives and Rules 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Examination of equity and fairness in employment, and non-discrimination practices within the workplace. To analyze various leadership and interpersonal relationship "best practices", to foster a more inclusive workplace setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 409. Global Workforce 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Examination of theoretical and practical means of cultural diversity, worldview and multicultural awareness in the workplace from a global perspective. To uncover workplace practices that are incorporated internationally, and to examine human resource-related practices from a global perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Term Typically Offered: Fall, Spring, Summer
Description: This course provides an opportunity to study the human resources management (HRM) functions and roles of performance management and compensation in healthcare organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 411. Human Resource Fundamentals 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the College of Education and Human Development.
Description: Overview of roles in the field of resource management in context of the overall field of HRM, the relationship to workplace performance improvement, and roles and competencies required in workforce leadership.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 412. Coaching and Talent Management 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the College of Education and Human Development.
Description: This course addresses knowledge, skills, and dispositions for workforce leaders in talent management, career development and coaching strategies to maximize performance and goal attainment at individual, group and organizational levels.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 413. Management of Diversity in Healthcare Organizations 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Examination of theoretical and practical means of cultural diversity, worldview and multicultural awareness in the workplace from a global perspective. To cover workplace practices that are incorporated internationally, and to examine human resource-related practices from a global perspective within the area of healthcare.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 414. Organizational Change in Healthcare 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Focus on strategies for effecting whole organization and process change in healthcare organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 415. Organization Change in Healthcare 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: This course provides an introduction to healthcare management, along with concepts, theories, and application of strategic leadership and management principles for increasing the effectiveness of healthcare organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 417. Coaching and Talent Management in Healthcare 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: This course addresses knowledge, skills, and dispositions for growing leaders in healthcare to maximize performance and goal attainment at individual, group, and organizational levels.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 418. Conflict Management in Healthcare Organizations 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Students will be introduced to different aspects of conflicts, negotiation, mediation and other alternative dispute resolution mechanisms in healthcare organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 419. Healthcare Workplace and Information Ethics 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Study and application of ethical perspectives at individual, group, organizational, and societal levels, as they apply to leadership in healthcare workplaces. Includes examination of social responsibility.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 420. Conflict Management in the Workplace 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Study and discussion of conflict, its types, sources, and process with special emphasis in conflict in organizations. Introduction to negotiation, mediation and other alternative dispute resolution mechanisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 421. Understanding Conflict in Organizations 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Students will study and discuss different aspects of conflict, its types, sources, and process with special emphasis on conflict in organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 422. Conflict Management 1 Unit
Term Typically Offered: Fall, Spring, Summer
Description: Student will study strategies to manage and transform conflict in organizations so that it is constructive or functional.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 423.</td>
<td>Dispute Resolution</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Students will be introduced to negotiation, mediation and other alternative dispute resolution mechanisms. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 427.</td>
<td>Principles of Management</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>This course provides an introduction and application of the management functions of planning, organizing, leading and controlling as they apply to healthcare leadership. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 428.</td>
<td>Understanding Leadership</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>This course provides an introduction to leadership, exploring: what it is, ideal leaders, followers, different perspectives, self-leadership, trait theories and creativity. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 429.</td>
<td>Leading and Leadership</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>This course provides an introduction to leading and leadership. Concepts of power, influence, conflict and change as it relates to leadership will be explored. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 430.</td>
<td>Healthcare Finance and Accounting</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Introduction to healthcare finance and accounting including: health business basics; how services are paid; pricing decisions and profit analysis; planning and budgeting; capital investment decisions; reporting profits, assets, financing, and cash flows; assessing organizational financial condition. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 431.</td>
<td>Healthcare Information Management</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Students will be introduced to conceptual and theoretical foundations of healthcare information management. Focus will be paid to developing an understanding about processes used to manage healthcare information management. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 432.</td>
<td>Healthcare Quality Evaluation</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Students will be introduced to conceptual and theoretical foundations of healthcare quality evaluation. Particular focus will be paid to developing an understanding of the basics of the quality evaluation process. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 433.</td>
<td>Healthcare Law and Ethics</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Students will explore and examine the legal, policy and ethical issues that engage healthcare professionals in the ever-changing healthcare system. Particular focus will be on developing professionalism, both personally and organizationally. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 442.</td>
<td>Supporting Organizational Change</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Focus on the reasons for and causes of change in organizations, and the professional and personal competencies to support change. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 444.</td>
<td>Leading Change</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Focuses on the reasons for and causes of change in organizations, and the professional and personal competencies to support change. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 445.</td>
<td>Organization Development</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Focus on organization development and change and interventions. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 446.</td>
<td>Whole Organization and Process Change Interventions</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Focus on strategies for effecting whole organization and process change in healthcare organizations. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>ELFH 450.</td>
<td>Healthcare Leadership</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Successful completion of all previous CBE Healthcare Leadership courses. The course includes a Culminating Experience reflection, a Program Exit Portfolio, and a Capstone Project. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
</tbody>
</table>
ELFH 460. Adult Learning and Diversity  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to the College of Education and Human Development  
**Description:** An overview of the theories and principles of adult learning and diversity with an emphasis on their application to the education and helping professions. Applications of career planning and talent management.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 490. Leadership and Management  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to College of Education and Human Development  
**Description:** Introduction and application to the management functions of planning, organizing, leading and controlling as they apply to leadership of workplace learning and performance.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 498. Special Topics in Organizational Leadership & Learning  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** To enable students to gain knowledge, skills, and competencies on topics related to organizational leadership. Provides advanced study on selected topics or emerging issues related to leading, managing, influencing and understanding people, processes, and positions within organizations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 501. Independent Study: Training or Technical Education  
**Term Typically Offered:** Occasionally Offered  
**Description:** Provides Training and Development students with course credit for special investigation into areas not currently subsumed in existing courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 510. Teaching Career and Technical Education  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to the College of Education and Human Development  
**Description:** A study of teaching practices as they apply to beginning teachers. Emphasis on practical procedures needed to succeed in teaching.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 511. Ethical Theories and Ethical Problem-Solving  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ELFH 311.  
**Description:** Students will study and apply ethical perspectives at the individual level in healthcare workplaces.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 512. Individual Ethics in the Organization  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to College of Education and Human Development  
**Description:** Study and application of ethical perspectives at individual, group, and organizational levels, as they apply to leadership in healthcare workplaces.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 513. Building Ethical Organizations  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Career & Technical Education Teacher Certification  
**Description:** Study and application of ethical perspectives at individual, group, organizational, and societal levels, as they apply to leadership in healthcare workplaces. Includes examination of social responsibility.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 514. Supervised Staff-Industry Exchange  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Career & Technical Education Teacher Certification  
**Description:** Provides essential improvement experience for the occupational education teacher through placement in occupationally oriented job situations which are evaluated to assist the teacher in implementing new skills and updating techniques in the classroom.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 515. Program Exit Experience - CUE  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Approval of instructor; admitted to College of Education and Human Development  
**Description:** Capstone experience, includes supervised professional work experience related to student's program and professional goals, and a program exit portfolio with program reflection paper.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 540. Using Productivity Tools  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ELFH 311.  
**Description:** Overview of applications of microcomputers and electronic media systems for instruction and management. Emphasis is placed upon use of general purpose integrated computer software. Current issues involving technology use for training/instruction and work/classroom/school management will be the focus for the course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 574. Instructional Technology  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ELFH 311.  
**Description:** This course provides knowledge and hands-on experience of current and emerging workforce instructional technologies. Students will learn theory and various technology-enhanced learning solutions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 577. Knowledge Management and Information Systems 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to the College of Education and Human Development.
Description: Overview of knowledge management strategies and applications. Examinations of tools and technologies used in organizations to support knowledge management and transfer.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 578. Workplace and Information Ethics 3 Units
Term Typically Offered: Occasionally Offered
Description: Study and application of ethical perspectives at individual group, organizational, and societal levels, as they apply to leadership in workplaces and management of organizational information. Includes examination of social responsibility.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 581. Culminating Experience on Personal Growth 1 Unit
Description: Student analyzes changes in competency-related learning from pre-to-post-program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 582. Program Exit Experience 1 Unit
Description: Student completes a Program Exit Portfolio, which provides the student the opportunity for reflection on accumulated content and experiences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 583. Capstone Project 1 Unit
Description: Student completes a capstone project that is the culmination of the student internship experiences, program portfolio, and reflection paper.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 596. Seminar 1-9 Units
Term Typically Offered: Occasionally Offered
Description: The investigation of special problems in training and development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Education: Advanced Practitioner (EDAP)
EDAP 510. Special Topics in Instruction 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 511. Reading and Writing in Content Areas 3 Units
Prerequisite(s): 12 hours in education or psychology, or consent of instructor.
Description: A comparison of the developmental and remedial reader at the middle and secondary levels, with emphasis on developing instructional strategies, materials, and programs in middle and secondary content areas.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 518. Survey of Linguistics for Educators 3 Units
Term Typically Offered: Occasionally Offered
Description: This course is a survey of both the theoretical and applied aspects of Linguistics. This is not an in-depth exploration of single-topic in the field of Linguistics but rather, a course designed to introduce students to the discipline of linguistics, especially those who are classroom educators. This course serves to introduce students to aspects of theoretical linguistics (phonology, morphology, syntax, semantics, and pragmatics, L1 & L2 acquisition) and explore various aspects of applied linguistics (Sociolinguistics, Linguistic Anthropology, English Language Learners). This course will encourage students to think critically about language and its use and apply the theoretical aspects of linguistics in a way that informs best practices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 521. Teaching English Learners in the Classroom 3 Units
Description: A focus on strategies for working effectively with English learners and their families by teachers in P-12 classrooms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 525. World Englishes 3 Units
Prerequisite(s): EDAP 518 (or concurrently).
Description: Exploring the historical, social, and political contexts of the discipline of World Englishes. Topics such as language standardization, the internationalization of English, and challenges of teaching and testing of English as an international language will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 530. Language, Society & Power 3 Units
Prerequisite(s): EDAP 518 (or concurrently).
Description: Exploring the intersection of language and culture by challenging students to think critically about language and culture and the impact of both across ages, genders, social classes, ethnicities, and personal identities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 535. Teaching English as an International Language 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): EDAP 518 or permission of the ESL program coordinator.
Description: May take concurrently with EDAP 518. This course will introduce students to the theoretical construct and practical consideration of teaching English overseas. It necessarily assumes English language teaching is an activity infused with social and political implications. By providing a theoretical construct as the course platform, the course will explore the roles of teachers and learners, the context of curricula, and the choice of methodology to reflect the cultural values of teaching English in an international setting. This course will be added as an additional program requirement. For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 536. Theories of Play 3 Units
Prerequisite(s): Graduate status.
Description: Offers knowledge about how play contributes to young children's development and learning. For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 540. Teaching Adolescent Readers 3 Units
Description: Examines active reading processes, instructional strategies, and appropriate adolescent literature for teaching both the developmental and the remedial reader in secondary language arts.
Note: Cross-listed with EDAP 540.

For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 541. Middle-Level Learner 3 Units
Description: The course is designed for practicing teachers in middle school or preparing to teach in middle school. The course is an in-depth study of the philosophical approach to educating young adolescent learners. The course will focus on the developmental issues and curricular concepts related to teaching at the middle level.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 542. Teaching Gifted Students in the Regular Classroom 3 Units
Description: Introduction to the nature and needs of gifted, talented, and creative children in K-12 classrooms, ways to meet these needs, and ways to increase gifted behaviors in a greater number of children than those already identified.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 585. Introduction to Educational Technology: Integrating Technology into Instruction 3 Units
Term Typically Offered: Occasionally Offered
Description: Develop a skill base in using and critically evaluating the usefulness, validity, and viability of instructional technologies appropriate for use in the P-12 classroom.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 587. Teaching and Learning Online 3 Units
Description: This course is designed to help students actively explore multiple and varied ways to use online tools and resources to support learning in P-12 and higher education contexts.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 590. Teacher Institute on African-American Issues 3 Units
Description: An introduction to Pan-African Studies focusing on multicultural educational strategies for public school educators.
Note: Cross-listed with PAS 529.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 591. Survey of African History and Culture for Teachers 3 Units
Description: An intensive survey of the history and culture of Africa (to 1600) for teachers.
Note: Cross-listed with PAS 530.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 592. Survey of African-American History and Culture for Teachers 3 Units
Description: An intensive survey of the history and culture of African Americans for teachers.
Note: Cross-listed with PAS 531.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 596. Seminar in Elementary Education 1-4 Units
Description: The investigation of special problems in education.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 597. Seminar in Elementary Education 1-4 Units
Description: The investigation of special problems in education.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Education: Teacher Preparation (EDTP)

EDTP 99. Developmental Special Topics 1-3 Units
Description: Examination of well-defined topics not studied in regular courses. Topics will be announced in the schedule of classes.
For the Schedule of Classes, refer to the Schedule (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Grading Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 101</td>
<td>Academic Orientation</td>
<td>1</td>
<td>Fall Only</td>
<td>An overview of the University, College of Education and Human Development, and Teacher Education program options and requirements, academic policies and procedures, and the role of academic advising for Teacher Education majors. An introduction to university life and culture, and skills for success for incoming freshman. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program.</td>
<td>Pass/Fail</td>
</tr>
<tr>
<td>EDTP 107</td>
<td>Human Development and Learning</td>
<td>3</td>
<td>Fall and Spring</td>
<td>Introduction to the basic principles of human development and learning as applied to home and school settings of children from birth to adolescence. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program.</td>
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</tr>
<tr>
<td>EDTP 201</td>
<td>The Teaching Profession - SB</td>
<td>3</td>
<td>Fall and Spring</td>
<td>Provides opportunities to survey the field of education through the study of educational theories, field experiences, and evaluation of education as a career. Some fieldwork required during class hours. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program.</td>
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<tr>
<td>EDTP 215</td>
<td>Foundations of Instruction</td>
<td>3</td>
<td>Fall and Spring</td>
<td>This course introduces pre-service teachers to the planning and preparation skills needed to be an effective classroom teacher. These skills include: identifying learning goals and objectives based upon standards-based curriculum; designing learning experiences with developmentally appropriate instructional strategies; creating a variety of assessments to gauge learning and motivate students to learn; managing a range of students, materials, and classroom activities to honor students’ diversity. This course is a prerequisite to admittance to the Teacher Education Program.</td>
<td>Admission to Teacher Education program.</td>
<td></td>
</tr>
<tr>
<td>EDTP 245</td>
<td>Children's Literature - AH, D1</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>The course is designed to introduce students to a body of children's literature with an emphasis on developing an aesthetic and critical response to literature, experiencing a breadth of genres and constructing creative ways to use literature with children. Examining children's literature from diverse communities help us to identify and better understand many of the political, social, and economic issues within the country. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>ENGL 102 or ENGL 105.</td>
<td>Pass/Fail</td>
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<tr>
<td>EDTP 301</td>
<td>General Methods</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Prepares service teachers to: identify appropriate learning goals for students; design learning experiences that include a variety of developmentally appropriate instructional strategies; manage a range of students, materials, and classroom activities; and honor students’ diversity with respect to learning style, motivation, race/ethnicity, gender, and language proficiency. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program.</td>
<td></td>
</tr>
<tr>
<td>EDTP 311</td>
<td>Introduction to Reading/Language Arts P-5</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Examines specific strategies for teaching children with and without disabilities, giftedness and other individual differences. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program; EDTP 311 (or concurrent).</td>
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</tr>
<tr>
<td>EDTP 312</td>
<td>Elementary Language Arts Methods Field Experience</td>
<td>1</td>
<td>Fall Only</td>
<td>Weekly field experience observing, analyzing, and participating in literacy and language arts instruction in schools. Students will connect and apply coursework, theory, and practice. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program; EDTP 311 (or concurrent).</td>
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<tr>
<td>EDTP 313</td>
<td>Math Methods</td>
<td>3</td>
<td>Fall, Spring</td>
<td>An investigation of trends, learning theories, instructional activities, and manipulative materials applicable to mathematics education in the elementary school with a focus on ways to improve teaching of mathematics for all elementary students. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program.</td>
<td></td>
</tr>
<tr>
<td>EDTP 314</td>
<td>Elementary Mathematics Methods Field Experience</td>
<td>1</td>
<td>Fall Only</td>
<td>Weekly field experience observing, analyzing, and participating in mathematics instruction in schools. Students will connect and apply coursework, theory, and practice. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Admission to Teacher Education program; EDTP 313 (or concurrent).</td>
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</tr>
</tbody>
</table>
EDTP 320. Methods for Teaching Reading/Language Arts, P-5 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Teacher Education program.
Description: Advanced study of specific strategies and practices for teaching children with and without disabilities, giftedness and other individual differences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 322. Social Studies Methods 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Teacher Education program.
Description: Designed to promote critical approaches to social studies, students will learn theoretically sound and research-based strategies for promoting the goals of social studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 323. Elementary Social Studies Methods Field Experience 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Teacher Education program; EDTP 322 (or concurrent).
Description: Weekly field experience observing, analyzing, and participating in social studies instruction in schools. Students will connect and apply coursework, theory, and practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 324. Science Methods P-5 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education Program.
Description: Examines the instructional methods and curricular materials appropriate for teaching the concepts and skills of science in grades P-5. Minimum of 36 hours of fieldwork required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 326. Elementary Science Methods Field Experience 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education program; EDTP 324 (or concurrent).
Description: Weekly field experience observing, analyzing, and participating in science instruction in schools. Students will connect and apply coursework, theory, and practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 328. Building Learning Communities 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education program.
Description: Philosophies and methods for creating and managing learning communities supportive of the intellectual, academic, social-emotional, and physical needs of diverse students in classroom settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 330. Building Learning Communities Field Experience 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education Program; EDTP 328 (or concurrent).
Description: Field experience observing and working in middle/secondary classrooms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 341. Teaching Middle School 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education Program.
Description: An in-depth study of philosophy, organizational patterns, developmental issues, and curriculum concepts related to teaching at the middle level.
Note: Cross-listed with EDTP 541.

EDTP 355. Assessment and Research 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education Program.
Description: Theory and practice of educational decision-making based on analysis of assessment data and professional research; introduction to key concepts in analyzing and conducting educational research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 396. Independent Study in Teaching and Learning 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Independent study on a topic or question agreed upon and supervised by a faculty member and approved by the department chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 397. Special Topics in Teaching and Learning 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Current Topics within the fields of teaching and learning. Course topics will vary as needed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 399. Music, Art, and Motion in P-5 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Examines the instructional methods and curricular materials appropriate for incorporating the concepts and skills of art, music, and movement education in grades P-5.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDTP 403. Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the UofL teacher preparation program.  
**Description:** Extends the principles of curriculum, development, teaching and learning introduced in previous courses to work with students from diverse ethnic, racial, linguistic, and socioeconomic backgrounds. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 404. Reading and Writing Across the Curriculum  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** Application of methods and materials to teaching middle school Language Arts effectively. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 406. Middle School Social Studies Methods  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** Application of methods and materials to teaching middle school Social Studies effectively. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 408. Middle School Mathematics Methods  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** Application of methods and materials to teaching middle school Mathematics effectively. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 409. Middle School Science Methods  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** An application of methods and materials to teaching middle school Science effectively. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 410. Middle School English Methods  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** Application of methods and materials to teaching middle school English effectively. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 412. Student Teaching: P-12  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program; Approval of Middle/Secondary Program.  
**Description:** Fifteen weeks of supervised observation, participation, and teaching in P-12 schools. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 417. Student Teaching: Middle School  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program; Approval of Middle/Secondary Program.  
**Description:** Fifteen weeks of supervised observation, participation, and teaching in middle schools. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 418. Student Teaching: Middle and High School  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program; Approval of Middle/Secondary Program.  
**Description:** Fifteen weeks of supervised observation, participation, and teaching in high schools. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 419. Student Teaching: High School  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Admission to the Teacher Education Program; Approval of Middle/Secondary Program.  
**Description:** Fifteen weeks of supervised observation, participation, and teaching in high schools. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 420. Reading and Writing Across the Curriculum  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to the Teacher Education Program and one of the BS in Middle School or Secondary Education programs.  
**Description:** Exploring the processes, products, and values of literacy in various areas of the curriculum, this course explores and applies literature of all forms in service to the various disciplines and societal roles. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 421. Intensive Field Experience  
**Grading Basis:** Pass/Fail  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Concurrent enrollment in one or more content methods classes.  
**Description:** Field experience observing, analyzing, participating, and teaching in schools. Students will connect coursework, theory, and practice. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 422. High School English Methods  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** Application of methods and materials to teaching high school English effectively. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 423. High School Mathematics Methods  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Teacher Education Program.  
**Description:** Application of methods and materials to teaching high school Mathematics effectively. For class offerings for a specific term, refer to the Schedule of Classes.
EDTP 424. High School Science Methods 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to the Teacher Education Program.
Description: Application of methods and materials to teaching high school Science effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 425. High School Social Studies Methods 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education Program.
Description: Application of methods and materials to teaching high school Social Studies effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 428. Business/Marketing Methods, 5-12 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to the Teacher Education Program.
Description: Application of methods and materials to teaching middle/high school Business/Marketing effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 429. World Language Methods, P-12 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Teacher Education Program.
Description: Application of methods and materials for teaching World Languages effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 432. Literacy and Numeracy in Interdisciplinary Early Childhood Education 3 Units
Prerequisite(s): Admission to Teacher Education.
Description: Focuses on the development of literacy and numeracy in young children birth through age 5. Students learn to plan and implement standards-based classroom routines, activities, and lessons which appeal to young children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 433. Curriculum & Methods in Early Childhood Special Education 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Teacher Education.
Description: This course explores early childhood models, strategies, and materials appropriate for use with children with special needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 435. Administration and Consultations: Day Care and Early Childhood 3 Units
Term Typically Offered: Fall, Spring
Description: This course will explore the responsibilities of the daycare or early childhood program director and the early childhood consultant.
Note: Cross-listed with EDTP 635.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 436. Theories of Play 3 Units
Term Typically Offered: Fall, Spring
Description: This course offers knowledge about how play contributes to young children's development and learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 437. Infant/Toddler Development and Care 3 Units
Term Typically Offered: Fall, Spring
Description: This course examines the development and educational needs of children from birth to age three.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 438. Literacy and Social Studies Methods in Interdisciplinary Early Childhood Education 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): EDTP 301.
Description: Research-based approaches to planning and implementing developmentally appropriate standards-based classroom activities, lessons, and materials that develop literacy and social studies understandings in young children birth through age five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 439. Mathematics and Science Methods in Interdisciplinary Early Childhood Education 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): EDTP 301.
Description: Research-based approaches to planning and implementing developmentally appropriate standards-based classroom activities, lessons, and materials that develop mathematics and science understandings in children birth through age five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 440. Interdisciplinary Content Methods in Early Childhood Education 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): EDTP 437.
Description: Research-based approaches to planning and implementing developmentally appropriate standards-based classroom activities, lessons, and materials that develop literacy, mathematics, science and social studies understandings in young children birth through age five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDTP 450. Student Teaching I: Elementary Education 6 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Approval of Elementary program coordinator.
Description: Seven weeks of supervised observation, participation, and teaching in elementary school.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 451. Student Teaching in Interdisciplinary Early Childhood Education 6 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): All courses in the program completed, positive midpoint assessment and recommendation from IECE Program Committee.
Description: Seven weeks of supervised observation, participation and teaching in preschool and/or kindergarten. Placements depend on certification being sought and student needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 452. Student Teaching II: Elementary Education 6 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Approval of Elementary program coordinator.
Description: Seven weeks of supervised observation, participation, and teaching in elementary school.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 477. Capstone Student Teaching Seminar - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): EDTP 311; EDTP 407, EDTP 408, EDTP 409, EDTP 410, EDTP 422, EDTP 423, EDTP 424, EDTP 425, EDTP 428, or EDTP 429; EDTP 412 (or concurrent), EDTP 417 (or concurrent), EDTP 418 (or concurrent), EDTP 419 (or concurrent), or EDTP 450 (or concurrent).
Description: Analysis, synthesis, and evaluation skills applied to the student teaching experience; collaborative problem solving; action research in classrooms.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 501. General Methods 3 Units
Prerequisite(s): Admission to teacher education.
Description: Prepares pre-service teachers to: identify appropriate learning goals for students; design learning experiences that include a variety of developmentally appropriate instructional strategies; manage a range of students, materials, and classroom activities; and honor students’ diversity with respect to learning style, motivation, race/ethnicity, gender, and language proficiency.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 502. Exploring Teaching in the Sociopolitical Contexts of P-12 Schools 3 Units
Prerequisite(s): Admission to teacher education.
Description: The sociocultural contexts of P-12 teaching are ever shifting. Society’s expectations for schools and the role that teachers are expected to assume must be understood in relation to the social, cultural, political, and historical contexts from which they arise. Teacher candidates must be made aware of the ways in which these multiple and overlapping contexts influence their future work as classroom teachers. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 503. Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds 3 Units
Prerequisite(s): Admission to teacher education.
Description: Extends the principles of curriculum, development, teaching and learning introduced in previous courses to working with students from diverse, ethnic, racial, linguistic, and socioeconomic backgrounds. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 504. Teaching with Technology 2 Units
Prerequisite(s): Admission to teacher education.
Description: Leading teachers to understand and apply current technologies in classroom instruction. The tools of technology are explored for their creative application in education of P-12 children across the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 505. Challenging Advanced Learners 1 Unit
Prerequisite(s): EDTP 450 (or concurrent), EDTP 612 (or concurrent), EDTP 613 (or concurrent), EDTP 615 (or concurrent), EDTP 616 (or concurrent), EDTP 617 (or concurrent), EDTP 618 (or concurrent), EDTP 619 (or concurrent), or permission of instructor.
Description: Study of methods for identifying gifted/talented students and differentiating curriculum and instruction to meet their needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 506. Public Schools in America: Understanding our Past to Envision our Future 3 Units
Term Typically Offered: Occasinally Offered
Prerequisite(s): Admission to Teacher Education Program.
Description: An examination of the historical and philosophical foundations of education in a socially and culturally diverse country. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDTP 511. Proficiency Evaluation in Interdisciplinary Early Childhood Education 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Occasionally Offered
Prerequisite(s): Bachelor's degree in early childhood, special education, or child development, two years of successful experience as an early childhood lead teacher or director.
Description: Designed for degreed, experienced early childhood professional to document proficiency on the KY IECSE Teacher Standards of the Child Care Director's Credential. Does not count toward a Master's Degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 522. Methods of Teaching Grammar, K-12 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: Examination of K-12 Common Core State Standards for Language and best practices in grammar study. Development of research-based lessons and strategies for teaching grammar in the context of reading and writing instruction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 527. Inquiry into Early Childhood Education and Child Development 3 Units
Prerequisite(s): Graduate Status.
Description: Examination of physical, cognitive, language, affective and social development of typically and atypically developing children from conception to age five, with implications for early childhood education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 532. Advanced Curriculum and Methods in Early Childhood Education 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to Teacher Education.
Description: Examination of contemporary curriculum development in programs for young children. Emphasis on contemporary education, methodology and strategies for dealing with children from diverse cultural backgrounds, materials and facilities in early childhood education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 535. Classroom Speech Correction 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 536. Theories of Play 3 Units
Prerequisite(s): Graduate status.
Description: Offers knowledge about how play contributes to young children's development and learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 537. Infant/Toddler Development & Care 3 Units
Prerequisite(s): Graduate status.
Description: Examines the development and educational needs of children from birth to age three.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 540. Teaching Adolescent Readers 3 Units
Description: Examines active reading processes, instructional strategies, and appropriate adolescent literature for teaching both the developmental and the remedial reader in secondary language arts.
Note: Cross-listed with EDAP 540.

EDTP 541. Teaching Middle School 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education or consent of instructor.
Description: Teachers understand and apply the concept of digital citizenship as they explore the creative application of current tools of technology in the education of K-12 children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 580. Digital Citizenship: Technology and Teaching 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to the Middle School or Secondary MAT program or consent of instructor.
Description: Methods, materials, and techniques to support the meaningful and appropriate use of technology in the teaching of middle and high school mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 582. Technology Applications for Science Teachers 3 Units
Prerequisite(s): Admission to Middle School or Secondary MAT program or consent of instructor.
Description: Methods, materials, and techniques to support the meaningful and appropriate use of technology in the teaching of middle and high school science.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 180. Intro to Special Ed 3 Units
Description: An overview of the field of Special Education, including, laws, eligibility process, service models, and procedural safeguards. Special emphasis is given to those with learning & behavioral disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Education: Special Education (EDSP)

EDSP 180. Intro to Special Ed 3 Units
Description: An overview of the field of Special Education, including, laws, eligibility process, service models, and procedural safeguards. Special emphasis is given to those with learning & behavioral disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 181. Field Experience in Special Ed 3 Units
**Description:** This course is designed to provide opportunities for interaction with students with disabilities in educational settings, in order to develop a fuller understanding of the nature and educational need of these students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 218. Technology for Students with Disabilities 3 Units
**Term Typically Offered:** Fall, Spring
**Description:** Develop a skill base in using and critically evaluating the usefulness, validity, and viability of assistive and instructional technologies appropriate for use with students with disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 240. Introduction to Exceptional Children 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Description:** Acquaints students with the characteristics and needs of children with a variety of exceptionalities: learning, physical, and mental disabilities, emotional behavior, and attention deficit disorders; other health impairments; giftedness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 260. Classroom and Behavior Management 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Description:** Study and application of principles appropriate for the education and management of behavior disorder children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 294. Teaching Individuals with Physical, Health and Multiple Disabilities 3 Units
**Term Typically Offered:** Spring Only
**Description:** Surveys the causes and educational implications of physical disabilities (cerebral palsy, spina bifida), sensory impairments (vision and hearing), health (cystic fibrosis, HIV/AIDS), and multiple disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 337. Collaboration, Inclusion and Transition 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** Admission to Teacher Education.
**Description:** Develops knowledge, skills, and dispositions for positive collaboration with parents, peers, and specialists serving students with disabilities. Includes a minimum of 15 hours of field placement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 345. Special Populations in Schools 3 Units
**Term Typically Offered:** Fall, Spring
**Prerequisite(s):** Admission to Teacher Education; concurrent enrollment in EDSP 346.
**Description:** Characteristics and needs of gifted/talented, students with disabilities, English language learners, and other special populations; curricular and instructional approaches to challenge and support them in the regular classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 346. Special Populations in Schools Field Experience 1 Unit
**Grading Basis:** Pass/Fail
**Term Typically Offered:** Fall, Spring
**Prerequisite(s):** Admission to Teacher Education.
**Corequisite(s):** EDSP 345.
**Description:** Field experience observing and working in middle/secondary classrooms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 395. Autism: Science, Culture and Identity - SB 3 Units
**Term Typically Offered:** Fall Only
**Description:** The purpose of this course is to increase students' understanding of scientific, historical and cultural approaches to conceptualizing human conditions such as autism spectrum disorder. Autism will serve as a case study of the interaction of science, culture and history in assigning meaning to aspects of human diversity. Students will develop a perspective on how the interplay of science and culture influence the meaning and treatment of disability. Students will critically analyze theories of autism and research literature, as well as read historical, fictional and first-person accounts of autism. Students will engage in discourse and scholarly writing related to the treatment of individuals on the autism spectrum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 396. Independent Study in Special Education 1-3 Units
**Term Typically Offered:** Occasionally Offered
**Description:** Independent study on a topic or question agreed upon and supervised by a faculty member and approved by the department chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 397. Special Topics in Special Education 3 Units
**Term Typically Offered:** Summer Only
**Description:** Current topics within the field of special education. Course topics will vary as needed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 420. Assessment of Exceptional Learners  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): EDTP 355 and admission to teacher education.  
Description: Addresses the knowledge and skills needed to conduct assessment procedures, interpret data, and use assessment data in educational decision-making for students with special needs in a legal and ethical manner.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 422. Transition Programs and Services for Children and Youth with Disabilities  
Term Typically Offered: Fall, Spring  
Description: This course will address the needs of personnel working with secondary special education students making the transition from school to adulthood. The course will provide information on: the basic adult needs of persons with development disabilities and an interdisciplinary service model to meet those needs. Emphasis will be placed upon the systematic planning and coordination of services that are required for persons with disabilities to achieve maximum quality of life.

Note: Cross-listed with: EDSP 614.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 440. Moderate/Severe Disabilities Curriculum and Methods II  
Term Typically Offered: Spring Only  
Prerequisite(s): EDSP 443.

Description: Design and implementation of instruction based on alternative achievement of grade level academic standards that meet the needs of students with moderate/severe disabilities within special education and collaborative classroom settings.

Note: Cross-listed with EDSP 611.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 441. Methods for Students with Learning and Behavior Disorders  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): EDSP 260 and admission to Teacher Education.

Corequisite(s): EDSP 442.

Description: Analyses of the subject areas, approaches, techniques, materials, and learning principles used in teaching students with learning and/or emotional/behavioral disabilities and mild mental retardation.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 442. Practicum: Learning and Behavior Disorders  
Term Typically Offered: Fall Only  
Prerequisite(s): EDSP 260 and admission to Teacher Education.

Corequisite(s): EDSP 441.

Description: Field experience in school settings where the student will observe, assist, assess, and instruct students with learning and behavior disorders.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 443. Instructional Methods for Students with Moderate/Severe Disabilities  
Term Typically Offered: Fall Only  
Prerequisite(s): EDSP 260 and admission to Teacher Education.

Corequisite(s): EDSP 444.

Description: Focuses on the design and implementation of individualized, functional curriculum for students with moderate/severe disabilities in the area of life skills, communication, social/behavioral, motor and functional academics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 444. Moderate/Severe Disabilities Practicum  
Term Typically Offered: Fall Only  
Prerequisite(s): EDSP 260 and admission to Teacher Education.

Corequisite(s): EDSP 443.

Description: Field experience in school settings where the student will observe, assist, assess, and instruct students with moderate/severe disabilities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 450. Moderate and Severe Disabilities Practicum II  
Term Typically Offered: Spring Only  
Prerequisite(s): EDSP 444.

Description: Field experience in school settings where the student will assist, assess, and instruct students with moderate/severe disabilities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 451. Learning and Behavior Disorders Practicum II  
Term Typically Offered: Spring Only  
Prerequisite(s): EDSP 442.

Description: Field experience in school settings where the student will assist, assess, and instruct students with learning and behavioral disabilities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 470. Student Teaching, LBD  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Admission to Teacher Education.

Description: Provides supervised teaching experience with students demonstrating learning and behavior disorders.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 471. Student Teaching, MSD  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Admission to Teacher Education.

Description: Provides supervised teaching experience with students demonstrating moderate and severe intellectual disabilities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 483. Early Childhood Special Education Assessment 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: Identification and assessment of children with special needs, ages birth to five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 484. Early Family Intervention for Preschool Disabilities 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: This course focuses on relevant issues in the provision of services to preschool children with disabilities and their families.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 485. Practicum: Developmental Intervention 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to Teacher Education.
Description: Field experience in home, agency or school settings where the student will observe, assist, assess, and instruct infants and toddlers with identified special needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 510. Legal Issues in Special Education 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: Prepares special education teachers to fully understand and implement both the spirit and the letter of federal and state laws, regulations, and procedures related to students with disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 512. Methods for Students with Learning and Behavior Disorders 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: Provides an overview of instructional methodology used to teach students with Learning and Behavior Disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 516. Assessment Procedures for Students with Learning & Behavior Disorders 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: Analyzes and evaluates the assessment procedures for children with learning disabilities in academic and social settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 518. Teaching Reading Special Education P-12 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: Addresses curriculum/ instructional methods in teaching reading to students with disabilities. Prepares candidates in theoretically sound reading instruction, reading processes and how to access, evaluate and respond to students' strengths/needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 520. Assessment of Students with Moderate/Severe Disabilities 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: Addresses knowledge and skills needed to conduct assessment procedures, interpret data and use assessment data in educational decision-making for students with moderate/severe disabilities in a legal and ethical manner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 533. Curriculum and Methods for Early Childhood Special Education 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: Exploration of curricular approaches and teaching strategies appropriate for young children with special needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 537. Language Learning for Exceptional Children 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: Delineates and describes language learning patterns commonly found in relation to specific impairing conditions. Emphasizes specific language learning methods and materials appropriate for these problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 540. Introduction to Exceptional Children 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: A survey course designed to acquaint students with all types of exceptional children - physically and mentally handicapped, socially and emotionally disturbed, and the gifted; methods of adapting education to meet the needs of these children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 541. Introduction to Learning and Behavior Disorders 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to Teacher Education.
Description: An integration of theoretical, conceptual, and applied educational systems for children with learning and behavior disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 545. Exceptional Children in the Regular Classroom 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: Educational programming for exceptional children in regular classrooms; curricular approaches in mainstreaming.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 546. Behavior Analytic Approach to Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): EDSP 260 for undergrads or EDSP 644 for graduates.
Description: This course prepares practitioners to use principles of ABA to assess and teach communication skills to individuals with disabilities and develop knowledge of current AAC technology and assessment procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 570. Autism: Introduction and Understanding 3 Units
Description: Increase understanding of individuals with Autism/Pervasive Developmental Disorder (PDD) across the life-span. Characteristics of this population, namely communication, social and behavioral attributes will be examined as they are manifested across all ages in the context of the family and community. Historical, diagnostic, and identification issues will be addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 578. Practicum in Teaching the Trainable Mentally Retarded 4 Units
Description: Supervised student teaching of trainable mentally retarded children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 581. Introduction to Gifted Education 3 Units
Description: Classroom- and school-level approaches to identifying, nurturing, and further developing a variety of talents in all children, including but not limited to the areas of intellectual, academic, creative, visual/performing arts, and leadership talent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 594. Foundational Concepts in Intellectual and Physical Disability 3 Units
Term Typically Offered: Occasionally Offered
Description: This course provides an overview of characteristics associated with intellectual and physical disabilities. Students will learn to establish support systems for addressing the educational and health needs of these learners.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 596. Seminar in Special Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 597. Seminar in Special Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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**Educational and Counseling Psychology (ECPY)**

ECPY 218. Workshop in Educational Psychology I 1-4 Units
Grading Basis: Pass/Fail
Prerequisite(s): Faculty consent.
Description: Topical workshop on Educational Psychology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 219. Workshop in Educational Psychology II 1-4 Units
Grading Basis: Pass/Fail
Prerequisite(s): Faculty consent.
Description: Topical workshop on Educational Psychology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 300. Seminar on Personal and Academic Inquiry 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 101 and ENGL 102 (or equivalent).
Description: This seminar is designed for second-year undergraduate students who are undeclared, pre-unit majors, or are in transition between majors. By exploring an academic topic or theme of personal interest, students will develop skills that will assist them in the exploration of a major and/or career. Students will document their journeys and produce a personal academic plan, which can be refined (or modified, adjusted) beyond the course, by the end of the semester. An instructional team made up of a faculty member, an advisor, and librarian will lead the course.
Note: Please contact Exploratory Advising for permission to enroll at 502-852-7969.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 305. Human Development and Learning 3 Units
Prerequisite(s): PSYC 201.
Description: How children and adolescents grow, learn, and develop socially, physically, emotionally, and mentally the implications for learning, the learning process, and purposeful observation of behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 355. Developing Campus Leadership 3 Units
Term Typically Offered: Fall, Spring
Description: An examination of leadership issues for current and prospective campus leaders. Involvement in an on-campus group or organization is required. Topics include ethical decision-making, effective communication, issues of power and conflict resolution.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 397. Topical Undergraduate Seminar in Educational Psychology 3 Units

Term Typically Offered: Occasionally Offered

Description: Selected topics as determined by student needs and interests.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 501. Independent Study in Educational Psychology 1-3 Units

Prerequisite(s): To be arranged with the dean.

Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 502. Independent Study in Educational Psychology 1-3 Units

Prerequisite(s): To be arranged with the dean.

Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 507. Learning Theory and Human Growth and Development 3 Units

Description: Basic principles of learning theory and human development. Included are the major theories of learning including behaviorism, cognitive, and cultural historical activity theory along with physical, social, cognitive, emotional, language, and cultural development as they apply to children and youth including those with special needs.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 512. Learning and Cognition in Education 3 Units

Prerequisite(s): Consent of instructor.

Description: A survey of major theoretical models in the area of cognition and learning. Emphasis upon applications of theory in the classroom and in counseling. Implications are drawn from several models and contrasted in the context of the individual student’s readiness, motivation and aptitude.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 513. Individual Differences in Education 3 Units

Prerequisite(s): Consent of instructor.

Description: A survey of individual differences in socio-cognitive and personality areas of development based upon current literature. Ways to meet individual and group needs in educational settings; interpretation of individual differences for effective classroom instruction.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 525. Topical Studies in Educational Psychology I 1-3 Units

Prerequisite(s): Consent of instructor.

Description: Investigation of current concerns and issues in educational psychology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 526. Topical Studies in Educational Psychology II 1-3 Units

Prerequisite(s): Consent of instructor.

Description: Investigation of current concerns and issues in educational psychology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 527. Workshop in Educational Psychology I 1-4 Units

Prerequisite(s): Consent of instructor.

Description: Topical workshop on educational psychology concerns.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 528. Workshop in Educational Psychology II 1-4 Units

Prerequisite(s): Consent of instructor.

Description: Topical workshop on educational psychology concerns.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 540. Evaluation and Measurement in Education 3 Units

Description: Intended to acquaint the student with evaluation and measurement in education and counseling. Content will include reliability, validity, test construction, and methods of evaluation and testing in various settings.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 596. Seminar in Guidance 1-4 Units

Prerequisite(s): Majors are urged to take seminars prior to or concurrent with practicum.

Description: The investigation of special problems in counseling.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 597. Seminar in Guidance 1-4 Units

Prerequisite(s): Majors are urged to take seminars prior to or concurrent with practicum.

Description: The investigation of special problems in counseling.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Electrical and Computer Engineering (ECE)

ECE 100. Special Topics in Electrical and Computer Engineering 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Spring
Prerequisite(s): ENGR 100, Freshman standing, consent of instructor.
Description: Provides an enrichment experience for freshman engineering students in an advanced topic in Electrical and Computer Engineering.
Note: Does not count toward a major in Electrical Engineering.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 210. Logic Design 3 Units
Term Typically Offered: Fall, Spring
Corequisite(s): ECE 211.
Description: Enrollment restricted to Electrical and Computer Engineering and Computer Engineering and Computer Science students only, or with permission of the Electrical and Computer Engineering Department Chair. Number systems, base conversions, and codes. Complementary arithmetic, boolean algebra, logic gates, logic families, MSI applications, flip-flops, registers, counters, memories, arithmetic circuits, and analysis and synthesis of combinational and sequential circuits.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 211. Logic Design Laboratory 1 Unit
Term Typically Offered: Fall, Spring
Corequisite(s): ECE 210.
Description: Design-oriented experiments on combinational and sequential logic circuits, using integrated circuit components.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 220. Network Analysis I 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PHYS 299, ENGR 205 (or concurrent).
Corequisite(s): ECE 221.
Description: Enrollment restricted to Electrical and Computer Engineering students only, or with permission of the Electrical and Computer Engineering Department Chair. Topics include basic circuit laws, circuit solving methods, independent and dependent sources, resistance, inductance, capacitance, introduction to operational amplifiers, Thevenin’s Theorem, superposition, first and second order circuits, power, energy, AC circuit analysis using impedance, phasors, and the power triangle, and balanced three-phase power, and critical thinking.
Note: Tablet PC required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 221. Network Analysis I Laboratory 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): PHYS 299, ENGR 205 (or concurrent).
Corequisite(s): ECE 220.
Description: Enrollment restricted to Electrical and Computer Engineering students only, or with permission of the Electrical and Computer Engineering Department Chair. An introductory laboratory with experiments in the use of measurement instruments and the measurement of network characteristics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 252. Introduction to Electrical Engineering 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201 (or concurrent).
Note: This course is for non-ECE students only.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 288. Electrical & Computer Engineering Cooperative Education Seminar 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the ECE Department; CECS 130 (or concurrent), ECE 220 (or concurrent), ECE 221 (or concurrent).
Description: Discussion of the policies and procedures for cooperative education and instruction in job search techniques, including resume preparation, forwarding letters, and behavioral interviewing. The student performance appraisal is explained, along with how to be successful in the workplace. The job market is discussed along with company descriptions and the requirements for the Co-op Report are explained. Question and answer sessions are included with returning co-op students and co-op employers. The student also receives training in the use of University Career Services Management System.
Note: This seminar is a prerequisite for the first cooperative education term.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 289. Electrical & Computer Engineering Cooperative Education I 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 130, ECE 220, ECE 221 and ECE 288.
Description: Full-time technical work experience related to the student’s academic program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 309. Electronic Systems Design  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** ECE 210, ECE 211, ECE 220, and ECE 221.  
**Description:** Topics on the design, fabrication, and testing of electrical and electronic circuits utilizing printed circuit boards (PCBs). The course will focus on practical electronics, schematic capture, board layout, standards, soldering, and troubleshooting of electronic systems. The course will have a lecture component along with lab implementation of course concepts.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 320. Network Analysis II  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** ECE 220 and EGR 205.  
**Description:** A continuation of ECE 220. Topics include Laplace transforms, network theorems, transfer functions, time-domain analysis, frequency response, operational amplifier circuits, filters, Bode plots, resonance, two-port networks, mutual inductance and transformers.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 322. Introduction to ECE Computing Tools  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** CECS 130 (or concurrent).  
**Description:** Introduction to scientific programming in MATLAB. Numerical variables, control structures, arrays, functions, and file input/output, plotting. Critical thinking skills. Software reporting standards.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 333. Electronics I  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** ECE 220 and ECE 221.  
**Corequisite(s):** ECE 320 and ECE 334.  
**Description:** Introduction to electronic devices and the basic circuits. The course deals with the op-amp, the diode, the bipolar junction transistor, and the field-effect transistor. Biasing, small-signal and large signal analysis and the principles employed in the design of electronic circuits are included in the course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 334. Electronics I Lab  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** ECE 221.  
**Corequisite(s):** ECE 320 and ECE 333.  
**Description:** Weekly laboratory to illustrate experimental analysis and design principles of electronic circuits.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 360. Probabilistic Methods in Electrical and Computer Engineering  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ENGR 201; ECE 320 (or concurrent).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 389. Electrical & Computer Engineering Cooperative Education II  
**Grading Basis:** Pass/Fail  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** ECE 210 and Junior standing, or faculty consent.  
**Description:** Exploration of one or more ECE topics not covered in the regular course offerings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 400. Special Topics in Electrical & Computer Engineering  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Approval of a faculty sponsor.  
**Description:** Exploration of one or more ECE topics not covered in the regular course offerings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 412. Introduction to Embedded Systems  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** ECE 210 and Junior standing, or faculty consent.  
**Description:** Introduction to embedded systems; assembly language programming; parallel and serial data transfer; polling, interrupts, and servicing of interrupts; software and hardware timing; analog-to-digital and digital-to-analog conversion. Projects on interfacing, system design, and implementation.  
**Note:** Cross-listed with CECS 412.

ECE 420. Signals and Linear Systems  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** ECE 320 and ECE 322.  
**Description:** Analysis of continuous-time and discrete-time, discrete-parameter, time-invariant, linear systems based upon the convolution integral, Fourier series and transform, Laplace transform, Z-transform, and state-space methods. Topics include the impulse response, transfer function, energy spectra, filtering, sampling, and applications to networks, communications, and controls.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 473. Introduction to Electromagnetic Fields and Waves  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGR 205 and PHYS 299.
Description: Electrostatic and magnetostatic fields; Faraday's law; Maxwell's equations, electromagnetic properties of matter, uniform plane waves.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 489. Electrical and Computer Engineering Cooperative Education III  1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 389.
Description: Full-time technical work experience related to the student's academic program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 493. Independent Study in Electrical & Computer Engineering  1-6 Units
Prerequisite(s): Approval of a faculty sponsor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 496. Professional Issues and Current Topics Seminar  2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Junior standing.
Description: Students receive instruction in making oral and written presentations to professional and technical audiences. Topics include ethical issues in engineering, and a selection of technical topics of current interest that promote the understanding of global, economic, environmental, sustainability, societal impacts of engineering; lifelong learning and critical thinking skills;
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 497. Capstone Design in ECE - CUE  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 412 and Senior standing; ECE 420 (or concurrent), ECE 496 (or concurrent), and ECE 5xx/5xx elective & lab (or concurrent); or permission of instructor.
Description: Students work in teams to design, build, test, and document an electrical, electronic, or electro-mechanical device or system, subject to realistic constraints, thus demonstrating their grasp of the concepts of electrical and computer engineering by successful completion of this culminating design experience.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 500. Special Topics in Electrical Engineering  1-6 Units
Term Typically Offered: Fall, Spring, Summer
Description: Exploration of one or more ECE topics not covered in the regular course offerings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 505. Graduate-Professional Project in Electrical Engineering  1-6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Approval of a faculty sponsor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 510. Computer Design  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 210 and ECE 211.
Corequisite(s): ECE 511.
Description: Review of logic design and elementary computer organization. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.
Note: Cross-listed with CECS 510.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 511. Computer Design Laboratory  1 Unit
Prerequisite(s): ECE 210.
Corequisite(s): ECE 510 or CECS 510.
Description: Experiments in the design of the central processing unit, memory, control, and input-output portions of a computer using VHDL for software simulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 514. Introduction to VLSI Systems Laboratory  1 Unit
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECE 510 (or concurrent) or CECS 510 (or concurrent) or consent of instructor.
Corequisite(s): ECE 515.
Description: Design of logic circuits and subsystems using CAD tools: layout, verification, parameter extraction, circuit- and logic-level simulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 515. Introduction to VLSI Systems  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECE 510 (or concurrent) or CECS 510 (or concurrent) or consent of instructor.
Corequisite(s): ECE 514.
Description: MOS devices and circuits, electrical and logic design principles. Fabrication steps, design rules, electrical parameters, extraction, delays. Logic/switch arrays, dynamic precharge logic, precharge forms, finite state machines, registers, memories, subsystem design examples.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 516. Microcomputer Design  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 412 or CECS 412 or consent of instructor.  
Description: Design and construction of microcomputers with microprocessors and digital integrated circuits. Breadboarding, hardware design and software design are emphasized. The class is separated into groups and each group designs, breadboards and tests a complete microcomputer system including interfaces to peripheral devices.  
Note: Cross-listed with CECS 525.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 518. Fundamentals of Computer Communications and Networks  
Prerequisite(s): ECE 360 or IE 360; ECE 412.  
Description: Data communications: The exchange of data between devices is covered. The key aspects of transmission interfacing, link control, and multiplexing are examined. Data communication networking: Examines the internal mechanisms by which communication networks provide a data transfer service for attached devices.  
Note: Cross-listed with CECS 516.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 520. Digital Signal Processing  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ECE 420.  
Corequisite(s): ECE 521.  
Description: Discrete time signals and systems; Discrete Fourier Transforms, FFT algorithms, flow graph and the matrix representation of digital filters; FIR and IIR filter design techniques; quantization effects; spectral estimation; current applications of digital signal processing.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 521. Digital Signal Processing Laboratory  
Prerequisite(s): ECE 420.  
Corequisite(s): ECE 520.  
Description: Focuses on the implementation of common digital signal processing functions using state-of-the-art DSP devices and software. Introduction to fundamentals of discrete-time signal processing and digital signal processor architectures and applications. Emphasis on laboratory experience involving generation of deterministic and random signals; digital filter design; quantization effects; FFT computation; linear system analysis; speech processing.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 522. Introduction to Biometrics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 420 and Senior standing.  
Description: Biometric approaches aim at identification based on a physical characteristic. Survey of biometric techniques with focus on non-intrusive approaches. Topics covered include image formation, sensors, motion tracking, and face recognition algorithms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 526. LabVIEW for Electrical Engineers  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 420 (or concurrent) or permission from the instructor.  
Description: Introduction to capabilities of LabVIEW software for electrical engineers. Weekly labs build mastery of LabVIEW applications such as: data acquisition and analysis, instrumentation, and DSP programming.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 530. Introduction to Random Processes and Estimation Theory  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 333, ECE 334, and ECE 420.  
Description: Basic concepts of probability, random variables, joint and conditional distributions, correlation, moment generating functions, finite dimensional distributions, second order moment properties of random vectors, random variables, functions of random variables, least square estimation, convergence, stochastic representation, stationarity, ergodicity, Gaussian processes, Markov chains, and random fields.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 531. Power Electronics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 333, ECE 334, and ECE 420.  
Description: Topics in power electronics including: power semiconductor devices; converter topologies and their applications; switched-mode DC and uninterruptible power supplies; motor drives; EMI concerns and remedies for interfacing to electric utilities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 532. Electromechanical System Designs for Home Appliances  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 333, ECE 334, and ECE 420.  
Description: An integrated study of advanced electrical engineering and software engineering fundamentals and their application to technologies associated with the design, development, and production of modern major household appliances. This class is designed for GE Appliances Edison students or GE Appliances employees enrolled in the ECE program.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 533. Integrated Circuit Design  
Term Typically Offered: Spring Only  
Prerequisite(s): ECE 333.  
Corequisite(s): ECE 534.  
Description: Analysis and design of analog integrated circuits. Bipolar, JFET, and MOS-FET devices. The technology of IC fabrication. Transistor connections, current sources, active loads, and output stages. Integrated amplifier and MOS circuit design.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 534. Integrated Circuit Design Laboratory
Term Typically Offered: Spring Only
Prerequisite(s): ECE 333.
Corequisite(s): ECE 533.
Description: Laboratory to illustrate design principles in ECE 533. Students working in the major home appliance industry with an understanding of industrial software engineering fundamentals and their application to technologies associated with the design, development, and production of major household appliances such as refrigerators, washers, dryers, cooking products and dishwashers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 539. Industrial Software for Home Appliances
Term Typically Offered: Fall, Spring, Summer
Description: This course provides electrical engineering graduate students working in the major home appliance industry with an understanding of industrial software engineering fundamentals and their application to technologies associated with the design, development, and production of major household appliances such as refrigerators, washers, dryers, cooking products and dishwashers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 540. Fundamentals of Lasers
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 542 or ECE 473 and PHYS 355 or consent of instructor.
Description: Topics to be discussed include interaction of light with matter, optical amplifiers, laser resonators, Gaussian and higher order optical beams, non-linear optics, and ultra-fast laser pulses.
Note: Cross-listed with PHYS 547.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 541. Engineering Optics Laboratory
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 540 (or concurrent).
Description: This course provides electrical engineering graduate students with a foundation in modern medical imaging and a beginning understanding of experimental design in medical imaging. The course is offered each year as a laboratory course. Students interested in these topics should register for ECE 641.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 542. Physical Electronics
Term Typically Offered: Fall, Spring
Prerequisite(s): PHYS 300 (or concurrent).
Description: Semiconductor fundamentals, energy bands, carrier transport theory, continuity equations, PN junction diodes, Zener diodes, Schottky Barrier diodes, metal-semiconductor contacts, bipolar junction transistors, MOS capacitors, field-effect transistors, microelectronic fabrication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 543. Fundamentals of Microfabrication and MEMS
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Senior standing.
Description: Microfabrication techniques including cleanroom technology, lithography, thermal oxidation, diffusion, ion implantation, film deposition, etching, micromachining, wafer-level bonding/polishing, and packaging yield. Microtechnology measurement and analysis techniques. Process simulation. CAD device-layout. MEMS (microelectromechanical systems) and microelectronic technology and applications. Material issues for MEMS/microelectronics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 544. Microfabrications/MEMS Laboratory
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 543 (or concurrent).
Description: This course provides electrical engineering graduate students with an introductory level to microfabrication processes, semiconductor measurement techniques, MEMS microstructure fabrication, and MEMS testing. Cleanroom activity required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 545. Optical Signal Processing
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 420 or consent of instructor.
Description: Scalar diffraction theory and equivalence to linear filtering. Fourier transform properties of lenses. The modulation transfer function. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 546. Introduction to Medical Imaging
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 420.
Description: Focuses on the foundation of modern medical imaging at an introductory level with emphasis placed on concepts: X-ray, CT, MRI, PET, and Ultrasound will be discussed. Students interested in in-depth treatment of these topics should register for ECE 641.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 550. Communication and Modulation
Term Typically Offered: Spring Only
Prerequisite(s): ECE 360 or IE 360, and ECE 420.
Corequisite(s): ECE 551.
Description: Modulations such as AM, FM, PAM, PPM, PDM, single sideband, vestigial sideband. Coherent and noncoherent detection, heterodyne action, performance and distortion, circuits for modulation and demodulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 555. Digital Image Processing  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ECE 520 and ECE 521, or ECE 420 and departmental consent.  
Corequisite(s): ECE 556.  
Description: Introduction to the theory and applications of 2-D signal and image processing; 2-D signals and systems analysis, 2-D sampling and quantization, 2-D signals and image transforms, 2-D FIR filter design; image formation; image enhancement; image restoration; image coding; image reconstruction from projections; image compression; color image processing; current applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 556. Digital Image Processing Laboratory  
Term Typically Offered: Fall, Spring  
Corequisite(s): ECE 555.  
Description: Laboratory experiments in software are assigned to test the concepts covered in ECE 555, Digital Image Processing. Projects include: Image Representation and Transformation, Image Enhancement in the spatial and frequency domain and Image Restoration. Time permitting, projects on image compression and image segmentation will also be assigned.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 559. Intermediate Electromagnetic Fields and Waves  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 473.  
Description: General curvilinear coordinates. Electromagnetic energy transmission. The wave equation, Poynting theorem and plane wave propagation in media. Transmission lines and impedance matching.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 560. Control Systems Principles  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 420.  
Corequisite(s): ECE 561.  
Description: Basic concepts of linear control systems. Formulation of the linear control problem by classical and state space methods. Frequency response and time response analysis and synthesis techniques. Stability and system performance specifications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 561. Control Systems Laboratory  
Term Typically Offered: Fall, Spring, Summer  
Corequisite(s): ECE 560.  
Description: Laboratory exercises involving identification, analysis and design of closed-loop control systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 564. Fundamentals of Autonomous Robots  
Term Typically Offered: Fall Only  
Prerequisite(s): Senior standing, or permission of instructor.  
Corequisite(s): ECE 565.  
Description: Fundamentals of autonomous robots: sensors, path planning, machine perception, basic principles of AI, modeling, control and architecture. Case studies in industry and medicine will be discussed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 565. Fundamentals of Autonomous Robots Lab  
Term Typically Offered: Fall Only  
Prerequisite(s): Senior standing, or permission of instructor.  
Corequisite(s): ECE 564.  
Description: An autonomous robots laboratory experience in which the student becomes familiar with designing and building autonomous robots, using sensors, applying robotic paradigms and controller design. A final robotic competition will be held at the end of the semester.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 581. Electric Machines and Drives  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 473.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 582. Power System Analysis  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ECE 473.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 593. Independent Study in Electrical Engineering  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Approval of a faculty sponsor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Engineering Fundamentals (ENGR)

ENGR 101. Engineering Analysis I - QR  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MATH ACT of 27 or successful completion of ENGR 190 or equivalent.  
Description: Introduction to vector methods and development and use of differentiation and integration to solve engineering problems, including those involving motion, related rates, optimization, moments and centers of mass.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 102. Engineering Analysis II  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ENGR 101.  
Description: Development and use of: integrating techniques, transcendental functions, vectors in three dimensions, polar coordinates, and power series to solve engineering problems, including work, hydrostatic force, statics, heating, cooling, and catenaries.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 110. Engineering Methods, Tools, and Practice I  
Term Typically Offered: Fall Only  
Prerequisite(s): Must be a Speed School of Engineering Student.  
Description: ENGR 110 is designed to provide first-year engineering students with an introduction to critical thinking, essential methods, tools and skills for success in engineering. Activities and assignments will focus on developing skills and knowledge in: engineering professionalism (ethics, culture, and risk), basic programming, graphical communication, problem solving, design analysis, and teamwork (including diversity and inclusion).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 111. Engineering Methods, Tools and Practice II  
Term Typically Offered: Spring Only  
Prerequisite(s): ENGR 110.  
Description: ENGR 111 requires students to apply and demonstrate the skills developed in ENGR 110 by successfully completing a team design project. Oral and written presentations are required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 119. Introduction to Engineering Graphics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ENGR 110 and ENGR 111. ENGR 119 offers a comprehensive introduction to 3D visualization, freehand sketching, and construction of engineering drawings using manual drawing techniques. An introductory unit of construction of 3D part models using SolidWorks is also included.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 120. Engineering Analysis III  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ENGR 101 or ENGR 149.  
Description: This course builds on manual drawing skills learned in ENGR 110, and introduces students to the concepts of engineering graphics using two-dimensional and three-dimensional computer aided drafting programs, dimensioning of drawings and applicable industry standards are also included.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 149. Introduction to Engineering Graphics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Must be a Speed School of Engineering Student.  
Description: An introduction to the concepts of engineering graphics including 2-dimensional and 3-dimensional drawings and related industry standards. Freehand sketching and computer generated 2D and parametric solid model (3D) drawing is included.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 150. Engineering Graphics Fundamentals  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Must be a Speed School of Engineering Student.  
Description: This course builds on manual drawing skills learned in ENGR 110, and introduces students to the concepts of engineering graphics using two-dimensional and three-dimensional computer aided drafting programs, dimensioning of drawings and applicable industry standards are also included.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 190. Introductory Calculus - QR  
Term Typically Offered: Fall Only  
Prerequisite(s): Math ACT of 24 or higher.  
Description: Review of algebra, trigonometry, analytic geometry, and introduction of elementary calculus in preparation for Engineering Analysis I.  
Note: This course may not be used for credit toward the JB Speed School of Engineering BS and MENG degrees.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 201. Engineering Analysis IV  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ENGR 102.  
Description: Development and use of: partial derivatives, Lagrange multipliers, Fourier series, vector-valued functions, and multiple integrals to solve engineering problems, including those involving thermodynamics, motion, fluid flow, curl, flux, and divergence.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGR 205. Differential Equations for Engineering 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201.
Description: First- and higher-order differential equations (DE), systems of DE, partial DE, difference equations, numerical methods, Laplace transforms, engineering applications involving mechanical vibrations, electrical circuits, impact forces, and mixing problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 307. Numerical Methods for Engineering 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201 and ENGR 205.
Description: Errors and error propagation, solving one and several equations, polynomial interpolation and divided differences, least squares approximation, numerical differentiation and integration, eigenvalues, eigenvectors, solving ordinary and systems of differential equations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 330. Linear Algebra for Engineering 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201.
Description: Elimination and LU-factorization, dimension, rank, and nullspace, linear transformations and similarity, orthogonally and least squares, eigentheory and diagonalizability, linear differential equations and systems of linear differential equations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 393. Independent Study in Engineering Fundamentals 1-6 Units
Prerequisite(s): Consent of a faculty sponsor.
Description: Independent study in any engineering fundamentals related area under the guidance of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 400. Special Topics in Engineering Fundamentals 1-6 Units
Term Typically Offered: Occasionally Offered
Description: Investigation of topics in any engineering fundamentals related areas that are not covered in regular courses. Topics will be announced in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 405. Practicum in Engineering Fundamentals Education 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 205 and Consent of Instructor.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes field experience as an undergraduate teaching assistant. Permission to enroll required. May be repeated for a maximum of 3 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGR 589. Research Methods for Engineering and Engineering Education 3 Units
Description: This course will have students: learn how to engage in ethical conduct as researchers; acknowledge, reference, and document resources in organized ways; review and evaluate research in a critical and professional manner; synthesize existing literature to craft arguments; complete training for human subjects research (CITI Training); and write research questions that align with methods. It will also provide an overview of research methods: qualitative, quantitative, and mixed research methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Engineering Management (EM)

EM 525. Project Management 3 Units
Prerequisite(s): Admission into the Industrial Engineering or Engineering Management program or instructor permission.
Description: Use of CPM, PERT, precedence diagramming, resource allocation heuristics, and other techniques for planning, managing, and controlling engineering projects involving research and development, production, maintenance, and construction. Computer procedures and codes for analyzing complex project networks will be covered.
Note: Cross-listed with IE 525.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EM 560. Construction Management 3 Units
Prerequisite(s): Admission into the Engineering Management program or instructor permission.
Description: An investigation of the engineer's role in the construction process. Study of the many variables influencing the project and associated methods of managing variables. Includes a practical demonstration of student's understanding schedule and cost estimate for a project of the student's choosing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EM 561. Engineering Statistics I 3 Units
Prerequisite(s): Admission into the Engineering Management program or instructor permission.
Description: Study of the laws of probability, discrete and continuous probability distributions, point and interval estimation, tests of hypothesis, simple linear regression, and the single factor analysis of variance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EM 562. Management of Human Systems 3 Units
Prerequisite(s): Admission into the Engineering Management program or instructor permission.
Description: Computer-aided, quantitative application of human performance capabilities and limitations to the planning, design, development, and evaluation of complex human-machine/industrial systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
English (ENGL)

ENGL 101. Introduction to College Writing - WC 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Meet admission requirements of the University of Louisville.
Description: Students engage in critical thinking and writing by developing their writing processes and producing finished prose. Required writing consists of multiple drafts of 4-6 papers of varying lengths. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 102. Intermediate College Writing - WC 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 101 or equivalent.
Description: Students practice more sophisticated approaches to writing processes and products with an emphasis on how literacy functions in U.S. society, both with and outside of the academy. Additional emphasis on conducting primary and secondary research, generating longer texts, improving critical reading, and awareness of how diversity is reflected within literacy practices in U.S. society. Required writing consists of multiple drafts of at least four papers of varying lengths, with one extended documented paper. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 105. Advanced Composition for Freshmen - WC 3 Units
Term Typically Offered: Fall, Spring
Description: Open only to exceptionally qualified students who have been notified of their eligibility. Completion discharges the general education requirement for two terms of freshman composition. Extensive practice of writing and reading, with several assignments requiring research. Note: Credit may not be received for both ENGL 102 and ENGL 105.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 202. Introduction to Creative Writing 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105.
Description: The writing of poetry, fiction, and drama; analysis of professional writings. Class discussion and individual conferences. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 250. Exploring Literature - AH 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105, or equivalent.
Description: Strategies for reading and interpreting poetry, fiction, and one other genre.
Note: Designed for non-majors.
Note: Credit hours will not count towards total hours taken within the English department for majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 260. Exploring Literature in a Global Context - AH, D2 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105 or equivalent.
Description: Reading, analyzing, talking about and writing about different kinds of literature, from around the world.
Note: Designed for non-majors.
Note: Credit hours will not count towards hours taken within the English Department for majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 270. Exploring Literature and Mythology - AH 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105, or equivalent.
Description: The nature and function of myth, mythmaking, and mythologies, in their relation to the study of literature. Literary works chosen from various traditions of literature's written in English.
Note: Designed for non-majors.
Note: Credit hours will not count towards total hours taken within the English Department for majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 280. Exploring Popular Culture and Genre - AH 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105 or equivalent.
Description: Practices of reading, analyzing, discussing, and writing about popular culture and genre. Engages with popular culture texts in ways that promote critical thinking about how and what they communicate.
Note: Designed for non-majors.
Note: Credit hours will not count towards hours taken within the English Department for majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 290. Exploring Rhetoric, Writing, and Society - AH 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105 or the equivalent.
Description: Explores the intersection of rhetoric, writing, and diverse models of social expression and representation within texts from a variety of genres. Engages with texts in ways that promote critical thinking about how and what they communicate.
Note: Designed for non-majors.
Note: Credit hours will not count towards total hours taken within the English Department for majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 300. Introduction to English Studies - WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105.
Description: An introduction to English Studies, providing an overview of forms such as poetry, drama, and the novel, and an introduction to terminology and methods used in analyzing texts.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 301. British Literature I 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105.
Description: A survey course of British writers. Historical period: 1700-1900.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 302. British Literature II 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105.
Description: A survey course of British writers. Historical period: 1700-1900.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 303. Scientific and Technical Writing - WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105.
Description: Designed for advanced students (juniors and seniors) studying science and technology in engineering, natural sciences (biology, chemistry, physics, mathematics), and computer sciences. Concentrates on writing in a variety of scientific and technical forms of discourse. Emphasizes practicing writing processes, secondary research, and problem-solving; recognizing the rhetorical character of scientific and technical discourse with its multiple purposes and audiences; evaluating and integrating a variety of written, visual, and oral elements of design; and developing field-specific vocabularies for talking about this discourse.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 304. Creative Nonfiction 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 202 or permission of instructor.
Description: Focuses on the writing of creative nonfiction; analysis of professional technique and of student writing. Class discussion and individual conferences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 305. Intermediate Creative Writing Workshop 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 202.
Description: Each section focuses on the writing of either fiction or poetry or drama; analysis of professional technique and of student writing. Class discussion and individual conferences.
Note: Schedule of courses indicates sections devoted to poetry, fiction, and drama respectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 306. Business Writing - WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105.
Description: Designed for advanced Business students and Arts and Sciences students anticipating careers in law, business, or government. Concentrates on writing in a variety of forms of business discourse. Emphasizes practicing writing processes, developing an appropriate style, learning professional problem-solving, integrating oral and written communication, and using new communication technologies.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 309. Inquiries in Writing - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105.
Description: Focuses on responding to differing rhetorical situations at an advanced level in appropriate modes for diverse audiences. Emphasizes creating and revising several substantial writing projects. Develops critical reading and writing abilities in multiple genres.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 310. Writing About Literature for Non-Majors - WR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105.
Description: Extensive practice in literary analysis and in the forms and conventions of writing about various literary genres.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 311. American Literature I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 312. American Literature II  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ENGL 102 or ENGL 105.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 325. Introduction to Linguistics  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ENGL 202 or ENGL 105.  
Description: Introduction to the basic assumptions, methods and concepts of studying language, focusing on the way language influences human experience and the organization of human behavior. Examines the nature, structure and use of language; may apply as elective in either Social Sciences or Humanities, meeting divisional or out-of-divisional requirements.  
Note: Cross-listed with LING 325.  
Note: Students with credit for LING 518 or ENGL 518 may not take this course.  

ENGL 330. Language and Culture - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Description: An ethnographic perspective to the study of language, investigating how it is used to create and maintain social institutions and rituals, and how it differentiated across gender and ethnicities.  
Note: Cross-listed with ANTH 343 and LING 330.  

ENGL 332. Shakespeare I  
Term Typically Offered: Fall Only  
Prerequisite(s): ENGL 102 or ENGL 105.  
Description: A study of selected plays of Shakespeare. Historical period: pre-1700.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 333. Shakespeare II  
Term Typically Offered: Spring Only  
Prerequisite(s): ENGL 102 or ENGL 105.  
Description: A study of selected plays of Shakespeare. Historical period: pre-1700.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 334. Introduction to Linguistics  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ENGL 202 or ENGL 105.  
Description: Introduction to the basic assumptions, methods and concepts of studying language, focusing on the way language influences human experience and the organization of human behavior. Examines the nature, structure and use of language; may apply as elective in either Social Sciences or Humanities, meeting divisional or out-of-divisional requirements.  
Note: Cross-listed with LING 325.  
Note: Students with credit for LING 518 or ENGL 518 may not take this course.  

ENGL 335. Introduction to Linguistics  
Term Typically Offered: Fall, Spring  
Prerequisite(s): ENGL 202 or ENGL 105.  
Description: Introduction to the basic assumptions, methods and concepts of studying language, focusing on the way language influences human experience and the organization of human behavior. Examines the nature, structure and use of language; may apply as elective in either Social Sciences or Humanities, meeting divisional or out-of-divisional requirements.  
Note: Cross-listed with LING 325.  
Note: Students with credit for LING 518 or ENGL 518 may not take this course.  

ENGL 336. Minority Traditions in English Literatures - AH, D2  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ENGL 102 or ENGL 105 or the equivalent.  
Description: This course examines literature by under-represented groups from non-U.S. societies. It explores a variety of literary forms in relationship to social factors such as class, race, ethnicity, religion and/or indigeneity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 337. Minority Traditions in American Literature - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ENGL 102 or ENGL 105 or the equivalent.  
Description: This course examines the works of authors from underrepresented groups, including African, LatinX, Asian, Pacific Islander, and/or Native American populations in the United States. We will analyze literary texts in relation to social factors such as class, race, ethnicity, gender, sexuality, religion, disability, and/or indigeneity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 338. Minority Traditions in American Literature - AH, D2  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ENGL 102 or ENGL 105 or the equivalent.  
Description: This course examines literature by under-represented groups from non-U.S. societies. It explores a variety of literary forms in relationship to social factors such as class, race, ethnicity, religion and/or indigeneity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 339. Minority Traditions in American Literature - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ENGL 102 or ENGL 105 or the equivalent.  
Description: This course examines the works of authors from underrepresented groups, including African, LatinX, Asian, Pacific Islander, and/or Native American populations in the United States. We will analyze literary texts in relation to social factors such as class, race, ethnicity, gender, sexuality, religion, disability, and/or indigeneity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 340. Special Topics in Creative Writing  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): ENGL 304 or ENGL 305, or permission of instructor.  
Description: Creative Writing course designed for students who wish to increase their aptitude as writers.  
Note: Topics to be announced in the Schedule of Courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 342. Black Women Novelists - AH, D2, WR  
Term Typically Offered: Spring Only  
Prerequisite(s): ENGL 102 or ENGL 105.  
Description: Study of selected novels by contemporary African-American, and Caribbean women writers, in-depth and in-comparative study. Historical period: post-1900. (Humanities)  
Note: Cross-listed with PAS 342 and WGST 342.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ENGL 346. Study Abroad  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Permissions of Director of Undergraduate Studies, Department of English.  
Description: Credit for study abroad courses in accredited programs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 371. Special Topics in English and American Language and Literature 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105.
Description: Exploration of one or more topics not covered in the regular course offerings.
Note: A maximum of 6 hours in special topics may be counted toward the major.
Note: Topics to be announced in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 372. Special Topics in English and American Language and Literature 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105.
Description:
Note: A maximum of 6 hours in special topics may be counted toward the major.
Note: Topics to be announced in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 373. Women and Global Literature - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102, or ENGL 105, or WGST 199, or equivalent.
Description: This course examines literatures by women writers and about women subjects from non-U.S. societies, exploring a variety of literary forms in relationship to social factors such as class, race, ethnicity, religion, sexuality and/or indigeneity.
Note: Cross-listed with WGST 325.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 374. Gender and Children's Literature - AH, D1 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGL 102, or ENGL 105, or WGST 199.
Description: Examination of gender in British and North American literature for children/young adults from the late 19th century to the present with attention to the intersection of gender with common themes (e.g., heroic journey). Historical period: post-1900.
Note: Cross-listed with WGST 326.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 375. LGBTQ Literature in the United States - AH, D1 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102, or ENGL 105, or WGST 199, or equivalent.
Description: This course examines LGBTQ literature by U.S. writers and explores the portrayal of LGBTQ identities through a variety of literary forms and in relationship to social factors such as class, race, ethnicity, and/or location.
Note: Cross-listed with WGST 375.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 381. Modern Poetry in English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105.
Description: A study of major poets writing in English, 1900-1960.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 382. Contemporary Poetry in English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105.
Description: A study of selected poetry in English since 1955. Historical period: post-1900.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 391. Studies in the Novel 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105.
Description: A survey of prose fiction to 1870, establishing standards for the novelistic tradition. Historical period: 1700-1900.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 394. American Short Fiction 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105.
Description: The development, over two centuries, of such forms as the sketch, tale, short story, and novella. Historical period: 1700-1900.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 401. Honors Seminar - WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGL 102 or ENGL 105; membership in English Honors Program.
Description: Honors seminar in selected topics in English.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Two seminars required of all students within the departmental honors program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 402. Honors Seminar - WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGL 102 or ENGL 105; membership in English Honors Program.
Description: Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Two seminars required of all students within the departmental honors program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 403. Advanced Creative Writing 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 305 and consent of instructor.
Description: Multi-genre creative writing course designed for students who wish to increase their aptitude as writers of drama, fiction or poetry. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 413. British Literature from the Beginning through Shakespeare - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 310 or ENGL 300.
Description: Study of selected works, in a variety of genres, from the beginning through Shakespeare. Taught with attention to historical and cultural context. Historical period: pre-1700.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 313; credit may not be earned for this course by students with credit for ENGL 313.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 414. British Literature from Shakespeare through the Neoclassical Period - WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 415. Nineteenth-Century British Literature - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from British literature of the nineteenth century. Taught with attention to historical and cultural context. Historical period: 1700-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 315; credit may not be earned for this course by students with credit for ENGL 315.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 416. Modern British and Irish Literature - WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from British and Irish literature, 1900 to the present. Taught with attention to historical and cultural context. Historical period: post-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 316; credit may not be earned for this course by students with credit for ENGL 316.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 417. Contemporary British and Post-Colonial Literature - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from contemporary British literature and the literature of former colonies. Taught with attention to historical and cultural context. Historical period: post-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 317; credit may not be earned for this course by students with credit for ENGL 317.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 418. American Literature to 1830 - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from American Literature produced before 1830. Historical period: 1700-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 318; credit may not be earned for this course by students with credit for ENGL 318.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 419. American Literature from 1830 to 1865 - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from American literature produced from 1830 to the Civil War. Historical period: 1830-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 319; credit may not be earned for this course by students with credit for ENGL 319.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 420. American Literature from 1865 to 1910 - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from the Civil War to 1910. Taught with attention to historical and cultural context. Historical period: 1865-1910.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 320; credit may not be earned for this course by students with credit for ENGL 320.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 421. American Literature from 1910 to 1960 - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from 1910 to 1960. Taught with attention to historical and cultural context. Historical period: post 1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 321; credit may not be earned for this course by students with credit for ENGL 321.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 422. American Literature from 1960 to the Present - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, from 1960 to the present day. Taught with attention to historical and cultural context. Historical period: post-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 322; credit may not be earned for this course by students with credit for ENGL 322.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 423. African-American Literature from 1845 to the Present - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected works, in a variety of genres, by African American writers from 1845 to the present day. Taught with attention to historical and cultural context. Historical period: post-1900.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Formerly ENGL 323; credit may not be earned for this course by students with credit for ENGL 323.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 450. Cooperative Internship in English Studies  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Declared English major, with minimum 3.0 GPA; Junior standing; at least 6 hours of English after ENGL 101 and ENGL 102; permission of instructor.
Description: An individually-arranged course for an academic project cooperatively arranged with the student’s employer and the English Department Director of internships.
Note: May not receive credit for both ENGL 450 and ENGL 555.
Note: May be used to meet requirements of the English major; may not be used to meet requirements of English minor.
Note: May not be repeated.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 460. Studies in Individual Authors - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: An intensive study in the works of one or a small grouping of authors.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: May be repeated once for credit.
Note: Historical period varies by semester; see schedule of courses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 470. Studies in Literary Movements - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: An intensive study in the works from a particular literary movement (e.g., Magical Realism, Postmodern Fiction, or Visual Poetry).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: May be repeated once for credit.
Note: Historical period varies by semester; see schedule of courses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 491. Interpretive Theory: The New Criticism to the Present  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or ENGL 310.
Description: Study of selected theories for the interpretation of literary and other texts, from the New Criticism to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 492. Special Topics in Interpretive Theory  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; ENGL 300 or 310; Junior standing.
Description: An in-depth investigation of a particular area of interpretive theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 501. Independent Study  3 Units
Prerequisite(s): Overall GPA of 3.0, an average of 3.5 in the department, and at least 18 semester hours credit in the department.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 502. Independent Study 3 Units
Prerequisite(s): Overall GPA of 3.0, an average of 3.5 in the department, and at least 18 semester hours credit in the department.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 504. Advanced Creative Writing II 3 Units
Prerequisite(s): ENGL 403, or consent of instructor.
Description: Concentration on a given form.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 505. Advanced Technical Writing - WR 3 Units
Prerequisite(s): ENGL 303, or writing sample with instructor’s consent.
Description: Topic definition, audience analysis and editing strategies for technical reports, theses and articles in various disciplines.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 506. Teaching of Writing - CUE, WR 3 Units
Prerequisite(s): ENGL 300, or ENGL 309, or ENGL 310, or consent of instructor.
Description: Introduction to the theory, research, and practice that informs the effective teaching of writing.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 507. The Teaching of Creative Writing - CUE, WR 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: Introduction to the theory, research, and practice that informs the effective teaching of creative writing.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 508. Literacy Tutoring Across Contexts and Cultures - WR 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: The theory and practice of teaching writing in one-on-one and small group settings in academic, professional and community settings; pedagogical strategies for working with writers from a variety of backgrounds and contexts.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Students who complete this course will be eligible for tutoring internships.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 510. Cooperative Internship in English 3 Units
Prerequisite(s): Approved only for graduate-level credit, permission of graduate director required; restricted to students in good standing (GPA 3.0 or above).
Description: An individually arranged semester-long project that combines English studies with workplace-based goals and responsibilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 515. Introduction to Old English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: Readings in the original language of Old English prose and poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 518. Foundations of Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: A survey of contemporary theories of language, from structuralism to transformational grammar; the relationship of linguistics to literature, psychology, philosophy, reading, and sociology.
Note: Cross-listed with LING 518.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 520. World Englishes 3 Units
Prerequisite(s): LING 325 or ENGL 325 (undergraduates only); minimum Junior standing.
Description: Exploration of the historical, social, and political context of the various varieties of English throughout the world; standardization, pidgins, and creoles will also be investigated.
Note: Cross-listed with LING 520.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 522. Structure of Modern English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Examination of the structure of modern English language; emphasis on grammatical terminology and systems of classification. Students collect and analyze linguistic examples, spoken and written. Recommended for prospective English teachers.
Note: Cross-listed with LING 522.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 523. History of the English Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: The evolution of modern English in terms of social, historical, and linguistic forces which molded it. Emphases include: Indo-European origins; Germanic sources and Latin, French, and Danish influences; structural and lexical change; development of dialect differences; colonial spread of English in technology, emergence of World Englishes.
Note: Cross-listed with LING 523.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 525. The Teaching of English as a Second Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105 and consent of instructor.
Description: A theoretical and practical approach to teaching English to students for whom English is not a native language. The linguistic bases of English, as well as the application of curriculum principles, will be considered.
Note: Cross-listed with LING 525.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 526. ESL Portfolio 1 Unit
Prerequisite(s): Completion of all other ESL requirements and consent of instructor.
Description: Assists teachers in submitting ESL portfolio for review in order to complete continuous assessment plan. Review takes place in the final phase of the course, of which self-assessment and peer assessment are components.
Note: Cross-listed with LING 526.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 535. Topics in Applied Linguistics 3 Units
Prerequisite(s): LING 325 or ENGL 325 (undergraduates only); minimum Junior standing.
Description: This course will focus on one aspect of applied linguistics. Topics may include discourse analysis, ESL teaching, language change, gender and language, or other relevant topics in applied linguistics.
Note: Cross-listed with LING 535.
Note: May be repeated up to a maximum of three times on different topics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 541. Studies in Old and Middle English Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Readings in the original language of Old English prose and poetry. Pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 542. Studies in Tudor and Elizabethan Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Tudor and/or Elizabethan periods. Historical Period pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 543. Studies in Stuart and Commonwealth Literature - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from the Stuart and/or Commonwealth periods. Historical Period pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 544. Studies in Restoration and Eighteenth-Century British Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from the Restoration and/or Eighteenth Century periods. Historical Period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 545. Studies in British Literature of the Romantic Period - CUE  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Romantic period. Historical Period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 546. Studies in British Literature of the Victorian Period - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Victorian period. Historical Period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 547. Studies in Modern British and/or Irish Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the turn of the century through 1950. Historical Period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 548. Studies in Contemporary British and/or Irish Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers since 1950. Historical period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 549. Studies in Post-Colonial and/or Ethnic Literature - CUE  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the post-1900 world. Historical Period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 550. Studies in African American Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, topics, or groupings of African-American writers.
Note: Cross-listed with PAS 551.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 551. Special Topics in Literature in English  3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: An examination of one or more specific areas of study in English. Historical period varies by semester.
Note: Topics to be announced in schedule of courses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 552. Special Topics in Literature in English  3 Units
Description: An examination of one or more specific areas of study in English. Historical period varies by semester.
Note: Topics to be announced in schedule of courses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 554. Women's Personal Narratives - CUE  3 Units
Prerequisite(s): ENGL 102, or ENGL 105, or WGST 199; junior standing.
Description: Course examines issues such as race, class, religion, geography, and sexual orientation surrounding the writing/reading of women's personal narratives (e.g., diaries, letters, autobiographies, oral histories, biographies, and films) from the 19th and 20th centuries.
Note: Cross-listed with WGST 520.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 555. Cooperative Internship in English Studies - CUE 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 hours; 3.0 GPA; declared English major; permission of instructor.
Description: An individually arranged course for an academic project cooperatively arranged with the student’s employer and the English Department director of internships.
Note: May be used to meet requirements of the English major; may not be used to meet requirements of English minor.
Note: May not be repeated.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 561. Chaucer - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Close reading of the major works, in the context of medieval traditions and fourteenth-century English society. Historical period: pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 562. Shakespeare - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Intensive study of selected drama and poetry of Shakespeare. Historical period: pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 563. Milton - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Intensive study of the poetry; background reading in Milton’s biography and prose. Historical period: pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 564. Selected Figures in American Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Study of the works of a selected writer or grouping of writers, in literary, biographical, and/or social context.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 567. Post-Colonial Voices: Writing Experience in African Literature - CUE, WR 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Examination of "post-coloniality" through a selection of fiction and literary criticism by African writers. Historical period: post-1900.
Note: Cross-listed with PAS 567.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 570. Language and Social Identity 3 Units
Prerequisite(s): Junior standing; LING 325 or ENGL 325 for undergraduates.
Description: An introduction to the social systems and the language varieties found across societies. Additionally, students will objectively explore both linguistic and social norms.
Note: Cross-listed with LING 570.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 571. Studies in American Literature to 1865 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers before 1865.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 572. Studies in American Literature, 1865-1910 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Civil War to 1910. Historical period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 573. Studies in American Literature, 1910-1960 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from 1910 to 1960. Historical period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 574. Studies in American Literature, 1960 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from 1960 to present. Historical period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 575. Genre Studies in African-American Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of a selected genre of African-American Literature.
Note: Cross-listed with PAS 575.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 577. The Harlem Renaissance - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of the literature of the Harlem Renaissance in relation to other literary and artistic productions of the period. Historical period: post -1900.
Note: Cross-listed with PAS 577.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 578. Studies in Renaissance Drama - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: In-depth study of dramatic works by Shakespeare's contemporaries. Historical period: pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 579. History of Criticism: Plato to the New Criticism - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: Study of selected theories for the interpretation of literary and other texts, from Plato to the New Criticism.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 595. Studies in Literature and Science - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected American plays.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 599. Advanced Studies in English - CUE, WR 3 Units
Prerequisite(s): ENGL 310; Junior standing.
Description: In-depth analysis of and intensive writing about a focused area of study within the discipline of English.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Entrepreneurship (ENTR)

ENTR 200. Elements of Entrepreneurship 3 Units
Prerequisite(s): ACCT 200, FIN 200, MKT 200 and MGMT 200.
Description: Exploration of the fundamental concepts and dynamics necessary for new venture creation. Students will learn how to turn an idea into a new venture: profit or not for profit. Students will learn how to incorporate the basics of Marketing, Finance, Management, Accounting, and Creativity. Students will progress through an intensive, hands-on, iterative writing process, culminating in a professional business plan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 350. Entrepreneurship 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): College of Business student or permission from Faculty Advisor to take Entrepreneur Minor courses.
Description: The study of the activities associated with the creation, assessment, development and operation of new and emerging ventures. Students will have the opportunity to develop their new venture management skills through a combination of classroom exercises, case analysis, and the development of a business plan to support the initiation of a new venture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 401. Entrepreneurship I 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Instructor approval.
Description: Focus on New Ventures, either within a company or external market.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Equine Administration (EQIN)

EQIN 202. Horse Industry Overview 3 Units
Term Typically Offered: Fall, Spring
Description: An overview of the history, cultural and economic impact of the relationship between humans and horses; the fundamentals of business management and their application to various equine operations, associations, and publications; and the structure, organizations, public policies, and economic trends in the horse industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EQIN 203. Application of Software for Equine Operations 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): EQIN 202.
Description: An introduction to the nature of the horse, and to those challenges unique to the management of equine enterprises because of issues related to equine locomotion, health, nutrition, or reproduction. Emphasis on live-animal management practices that can dramatically affect profit and loss in equine-related enterprises.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQIN 205</td>
<td>A Global Perspective of Equine Industry</td>
<td>1</td>
<td>A study of the increasing global scope of the equine industry and the economic, political and social forces influencing growth. Attention will be given to the effects of changing political systems, regulation, taxation, exchange rates, global competition, demographics and other forces. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>EQIN 206</td>
<td>Industry Speaker Series</td>
<td>2</td>
<td>Prominent individuals from a broad spectrum across the equine industry serve as weekly guest lecturers with student reports and instructor-led, in-depth classroom discussions of each speaker's presentation. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>EQIN 250</td>
<td>Equine Assisted Activities</td>
<td>3</td>
<td>An introduction to the history, purpose, theory, methods, and practice of Equine Assisted Activities. This course blends theoretical framework with practice-based approaches in equine-assisted activities. Students will learn the theory behind the methods of using equine to support human growth, learning, and development. Students will also learn the equine-related competencies needed to participate in Equine-Assisted activities and programs. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Even Years</td>
<td>EQIN 202</td>
</tr>
<tr>
<td>EQIN 301</td>
<td>Organization and Administration of Equine Operations</td>
<td>3</td>
<td>An introduction to the legal aspects of the equine industry, to include an overview of commercial transactions, such as private and public sales of horses, stallion syndicate agreements, stallion service contracts, training agreements, boarding contracts, and applications of the Uniform Commercial Code to the equine industry. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Only</td>
<td>EQIN 202, MGMT 301</td>
</tr>
<tr>
<td>EQIN 302</td>
<td>Equine Economics</td>
<td>3</td>
<td>An application of economic concepts and tools to the management challenges of equine-oriented firms and how a deeper understanding of economic theory can help in approaches and solutions to problems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Only</td>
<td>MGT 301 (or concurrently).</td>
</tr>
<tr>
<td>EQIN 303</td>
<td>Equine Regulatory Law</td>
<td>2</td>
<td>An introduction and review of Equine Regulatory Law in racing jurisdictions throughout the United States; includes the use of case-law method; general overview of legal system and administrative regulations. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Occasionally Offered</td>
<td></td>
</tr>
<tr>
<td>EQIN 304</td>
<td>Equine Marketing</td>
<td>3</td>
<td>An introduction to marketing strategy, planning, budgeting, research, product development, pricing communications, and promotions, with applications to the horse world. Lectures will be supplemented by readings, case scenarios, and guest presentations by industry professionals with marketing experience. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Spring Only</td>
<td></td>
</tr>
<tr>
<td>EQIN 306</td>
<td>Equine Commercial Law</td>
<td>3</td>
<td>An application of economic concepts and tools to the management challenges of equine-oriented firms and how a deeper understanding of economic theory can help in approaches and solutions to problems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Spring Only</td>
<td></td>
</tr>
<tr>
<td>EQIN 313</td>
<td>Equine Commercial Law</td>
<td>3</td>
<td>An introduction to the multi-level regulatory environment facing the horse industry in the United States, with emphasis on the following areas: Federal Regulation—The Interstate Horseracing Act, the Horse Protection Act, and proposed federal takeover of drug testing in horse racing; State Regulation—Racing Commissions and Animal Protection Laws; Local/Municipal Regulation—Zoning Ordinances; Private Regulation—The Jockey Club, the United States Equestrian Federation, FEI, sales, breed, and discipline associations. The role of the courts and alternative, non-judicial options such as mediation and arbitration in resolving disputes in the equine industry. Emphasis is on practical application of regulatory law through review of real-life case studies and problem-based learning. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Spring Only</td>
<td>EQIN 313</td>
</tr>
</tbody>
</table>
EQIN 396. Zero-Credit Internship-Equine 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): EQIN 202 and EQIN 204, good academic standing, and validation through the Ulmer Career Management Center.
Description: Application to the zero-credit internship program and completion of orientation internship program and completion of orientation processes should be accomplished prior to employment. Students must be Equine Administration majors. A new workplace experience in an approved Equine Administration position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools. This program is available to students who have received the maximum number of co-op credit hours for their major.
Note: This course is restricted and requires permission from the Ulmer Career Management Center.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EQIN 398. Co-op in Equine II 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): EQIN 202 and EQIN 204; Junior or Senior standing; 3.0 GPA.
Description: Students must work in a segment of the industry of their choice under a cooperative agreement set up by the university. Both students and employers must agree to the terms of the agreement. A written paper is required on a project undertaken by the student (not a summary of what was observed on the job). Internships are generally taken during the summer unless taken at a commercial breeding farm when they are taken during the spring semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EQIN 399. Co-op in Equine III 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of Equine Department.
Description: A new or continued workplace experience in an approved Equine position which offers new learning and/or additional responsibilities that continue the student’s progression of learning and opportunity for practical application of classroom theory and tools.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EQIN 401. Equine Taxation 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MATH 180.
Description: The focus will be on Federal income tax laws and their impact on the operations of horse owners and breeders. The “Business v. Hobby” issue will be addressed in depth by analyzing cases applying the nine regulatory factors used by the IRS and the courts to determine the issue. Other topics include: defining “income”, the tax implications of business entity selection, including sole proprietorships, syndicates, partnerships, general and limited partnerships, corporations, limited liability companies, cash and accrual methods of accounting, record keeping, passive losses and material participation, deducting ordinary and necessary business expenses, depreciation and capitalization deductions. Students will apply what they have learned and evaluate tax strategies based on real-world situations and problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EQIN 402. Enterprise Analysis - CUE 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): EQIN 301; EQIN 302 or EQIN 401; EQIN 304; EQIN 403; CLAW 301; MGMT 401 (or concurrently); senior standing.
Description: The goal of this course is to bring together the knowledge of core business theory, principles and practices in a comprehensive way that prepares students to plan and execute dynamic business strategies and models in today's market environment. Emphasis will be placed on the role of on-going planning and follow-up in developing and operating businesses in complex competitive circumstances through acquiring and utilizing the resources—human, physical, and financial—that are relevant to a particular activity. Students will be engaged in a variety of ways in the course—lectures, presentations, team assignments, research—with the goal of producing comprehensive business plans on an individual basis that reflect their understanding of identifying customers needs and developing strategies to effectively find and keep customers in a highly complex competitive marketplace.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EQIN 403. Equine Financial Management 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): FIN 301.
Description: Applications of analytical techniques to financial decision making in the equine industry. The financing and valuation of assets and businesses and financing options are considered in a risk/return framework.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EQIN 404. Current Equine Issues  
Term Typically Offered: Spring Only  
Prerequisite(s): Senior standing.  
Description: The purpose of this course is to explore and discuss the current issues of concern within the horse industry, especially those that affect the economic and competitive circumstances of the industry and/or its public perceptions. Course lectures will incorporate the business-related implications of each issue, as well as discussions of industry views and responses from various stakeholder groups. Industry professionals will be asked to present background and “insider” views and observations on selected issues throughout the course, and discussion and debate in the classroom are strongly encouraged.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EXP 503. Clinical Exercise Physiology  
Prerequisite(s): EXP 502 or consent of instructor.  
Description: This course provides students with in-depth content regarding the physiology of exercise specifically related to clinical populations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Finance (FIN)

FIN 200. Elements of Finance  
Prerequisite(s): ACCT 200.  
Description: This is an introduction to financial tools for running a business. Topics include financial statements and performance measures, the operating cycle of a business, cash budgeting, managing working capital, time value of money, capital expenditures, sources and cost of funds, debt, risk, and financial distress.  
Note: This course is not open to College of Business students.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 201. Money Management and Personal Finance  
Term Typically Offered: Fall, Spring, Summer  
Description: The study of the techniques and process of saving and managing money and of creating, organizing, implementing, monitoring, and revising a personal plan for procuring and allocating financial resources in order to achieve financial objectives and goals. The topics covered include cash management and budgeting; financial services to include savings and checking accounts; consumer credit; consumer buying; housing; risk management and insurance; investments; estate and retirement planning; tax planning; and the time value of money.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 301. Corporate Finance  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MATH 180 or MATH 205 or equivalent; ACCT 201; CIS 250 or CIS 305; ECON 201; BSTA 201 or BSTA 301 or equivalent.  
Description: A study of techniques that enable firms to efficiently manage their financial resources and maximize the value of their owners’ investment. Investment techniques and analysis applied to the individual as well as to the firm. Computer and calculator problem solving.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 304. Intermediate Corporate Finance  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): FIN 301.  
Description: Corporate finance and financial accounting are combined to assess the shareholder value created by a firm’s operating and financing decisions. Free cash flow and residual income measures and financial ratios are developed that are used by both internal and external company analysts. Financial forecasting methodology combining accounting and economic data is developed. Additional topics include market efficiency, cost of capital, financing policies, advanced DuPont analysis, sustainable growth, and financial distress.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**FIN 330. Banking and Financial Administration**

Term Typically Offered: Occasionally Offered

Prerequisite(s): FIN 301.

Description: A study of the management of internal operations of financial institutions, especially commercial banks, but including other savings institutions and insurance companies. The operations of the institutions are examined in light of trends and developments in the financial community. Included are topics such as expansion via bank holding companies or branching, portfolio management of loans, marketable securities and liabilities, and legal or regulatory constraints.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 345. Entrepreneurial Finance**

Term Typically Offered: Fall, Spring

Prerequisite(s): FIN 301.

Description: The focus is on financing issues facing new, young, and small business ventures. Topics include financial statements, financial forecasts, venture valuation, sources and forms of venture capital and negotiations between owners and suppliers of funds.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 350. Risk and Insurance**

Term Typically Offered: Fall, Spring

Prerequisite(s): FIN 301.

Description: Designed for understanding the importance of risk management in personal and business affairs, the different methods of handling risks that are insurable, and risks that are not insurable. A portion of this course is devoted to the analysis and solution of risk situations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 360. Business Valuation**

Term Typically Offered: Occasionally Offered

Prerequisite(s): FIN 301.

Description: The study of techniques and methodologies that enable the determination of value for business entities. Includes discussion of professional standards of business valuation.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 370. International Finance**

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): FIN 301.

Description: A study of corporate finance within an international context. Discusses exchange rates, parity conditions, capital flows, and international banking. Examines the financing strategies and capital budgeting techniques of multinational corporations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 396. Zero-Credit Internship-Finance**

Grade: Pass/Fail

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): FIN 301, good academic standing, and validation through the Ulmer Career Management Center.

Description: Application to the zero-credit internship program and completion of orientation processes should be accomplished prior to employment. Students must be Finance majors. A new workplace experience in an approved Finance position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools. This program is available to students who have received the maximum number of co-op credit hours for their major.

Note: This course is restricted and requires permission from the Ulmer Career Management Center.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 397. Co-op in Finance I**

Grade: Pass/Fail

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): FIN 301, University GPA 2.5 and validation through the College of Business Co-op Office.

Description: Application to the co-op program and completion of orientation processes should be accomplished prior to employment. Finance majors only. A new workplace experience in an approved Finance position which offers a progression of learning in a level-appropriate opportunity for practical application of classroom theory and tools.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 398. Co-op in Finance II**

Grade: Pass/Fail

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): Completion of FIN 397, University GPA 2.5 and validation through the College of Business Co-op Office.

Description: A new or continued workplace experience in an approved Finance position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**FIN 399. Co-op in Finance III**

Grade: Pass/Fail

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): Permission of the College of Business Co-op Office.

Description: A continued or new workplace experience in an approved Finance position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
FIN 401. Investments 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): FIN 301.
Description: Introduction to the various investment alternatives available to the individual investor. Covers: sources of information; the securities markets in the United States; policies of investment companies and institutions; the problems and procedures of investment risks and investment analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 402. Security Analysis and Portfolio Management 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): FIN 304 and FIN 401.
Description: An introduction to the principles, methods, and techniques of asset selection and the portfolio mix through the application of investment principles to investment policy. Investigation of the interrelationship between the economy and individual securities as well as the securities markets is made. Techniques of valuation and portfolio management are covered, including fundamental, technical and portfolio analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 403. Financial Derivatives 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): FIN 301.
Description: An introduction to financial derivative contracts: forwards, futures, swaps and options. Valuation and pricing models for these contracts are derived. Proper ways to use these contracts for the purpose of risk management are emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 405. Securities Broker and Financial Industry Preparation 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): FIN 401.
Description: This course is designed to provide students with insight into the connection between the real financial industry world and theory. This provides insight into the actual practice of analyzing, selling and trading financial products and prepares student to take the Financial Industry Regulatory Authority (FINRA) Series 7 general securities licensing examination.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 414. Applied Financial Econometrics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): FIN 301 or faculty consent.
Description: Econometric application of economic and financial concepts and principles related to corporate finance, investments, financial markets, and international finance. Quantitative techniques include time series analysis, exponential smoothing, and regression analysis.
Note: Cross-listed with ECON 414.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 415. Capital Budgeting 3 Units
Prerequisite(s): FIN 301.
Description: A study of the techniques used to evaluate, select, and finance long-lived business assets. Topics included in the course are interest factors, cash-flow determination, evaluation techniques, risk adjustment, capital rationing, cost of capital and leasing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 433. Financial Markets and Institutions 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): FIN 301 or faculty consent.
Description: This course provides a study of financial institutions such as banks and financial instruments and markets such as the stock, bond, money and mortgage markets. The course integrates macro-economic concepts such as interest rate determination and the role of the Federal Reserve with asset valuation and the movement of capital in the financial marketplace. Commercial bank financial statements and key risks are covered. Periods of financial crises are also examined. Options, futures and swaps are discussed in the context of hedging risks in banks and other types of firms. The course builds heavily on the concepts of time value of money and risk and return, as developed in previous courses.
Note: Cross-listed with ECON 433.

FIN 475. Capstone Seminar in Finance - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): FIN 304 and FIN 401.
Description: A senior level capstone course which will integrate financial concepts and theory to solve and apply to real work problems.
Note: No exceptions will be made to the prerequisite requirements.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 490. Special Topics in Finance 1-3 Units
Term Typically Offered: Fall, Spring
Description: A variety of topics in financial theory and/or application will be studied. Course content will vary but the content will not duplicate current offerings. A student may repeat this course for credit as long as the particular topic is different.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 491. Special Topics in Economics and Finance 3 Units
Description: Topics of current importance to students of economics and finance will be studied. Content of course will vary but will not duplicate current offerings. This course may be repeated for credit as long as content or topics were not already covered by the student in this course.
Note: Cross-listed with ECON 491.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
FIN 499. Independent Study in Finance 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Written proposal must be sponsored by at least one faculty member and approved by the Department Chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 500. Business Finance 3 Units
Prerequisite(s): Admission to MBA program.
Description: An introduction to financial concepts from the corporate perspective. Topics include the basics of financial statements, an overview of the financial markets, risk and return, the time value of money, security valuation using time value concepts, cash flow determination and valuation, and long-term capital investment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

French (FREN)

FREN 000. French Study Abroad 1-30 Units
Prerequisite(s): A letter of intent addressed to the department chair and membership in a program approved by the department.
Description: Credit awarded to students upon successful completion of the program as documented by the Francophone institution. Upon return, students will be required to demonstrate proficiency at a level agreed upon by the Department of Classical and Modern Languages prior to departure.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 121. Basic French I 4 Units
Term Typically Offered: Fall, Spring, Summer
Description: For beginners. Basic grammar, with practice in hearing, speaking, reading, and writing.
Note: Not counted toward French major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 122. Basic French II 4 Units
Term Typically Offered: Fall, Spring, Summer
Description: For beginners. Basic grammar, with practice in hearing, speaking, reading, and writing.
Note: Not counted toward French major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 123. Basic French III 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): FREN 122 or equivalent.
Description: Continuation of Basic French II. A treatment of more advanced grammar topics and the continuation of work with the development of basic language fluency in listening, speaking, reading and writing.
Note: Formerly FREN 221.
Note: Does not count toward major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 141. Intensive French I 6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): FREN 141.
Description: Continuation of French 141. A treatment of more advanced grammar topics and the continuation of work with the development of basic language fluency in listening, speaking, reading and writing.
Note: Does not count toward major in French.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 142. Intensive French II 6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): FREN 141.
Description: Continuation of French 141. A treatment of more advanced grammar topics and the continuation of work with the development of basic language fluency in listening, speaking, reading and writing.
Note: Does not count toward major in French.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 313. Special Topics in French Literature, Language, and Culture 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): FREN 123 or FREN 142, or equivalent.
Description: Critical reading and interpretation of works in French whose themes and issues have relevance to today's world. Topics may vary from semester to semester.
Note: May be repeated once for credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 315. Etymologie francaise; la memoire des mots. 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): FREN 320 or permission of instructor.
Description: Analysis of the classical heritage present in French with inclusion of word histories giving special attention to scientific/technical terminology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### FREN 320. French Skills Overview

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** FREN 123 or equivalent.

**Description:** Consolidation of oral and written language skills to improve listening, speaking, reading and writing abilities.

**Note:** Required of all French majors and minors unless student’s native language is French.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 321. French Conversation

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** FREN 320.

**Description:** Intensive practice in oral French in a variety of conversational settings.

**Note:** Required of all French majors and minors unless student’s native language is French.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 322. Written Expression - WR

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** FREN 320.

**Description:** Intensive practice in written French; grammar review and vocabulary building.

**Note:** Required of all French majors and minors.

**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 323. French for The Workplace

**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** FREN 321 or FREN 322, or faculty consent.

**Description:** French professional correspondence; commercial practices; workplace behavior and expectations; workplace-specific vocabulary; sensitivity and exposure to cultural practices.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 325. French Theater Practicum

**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** FREN 321 or faculty consent.

**Description:** Components in the production of a French play, from the decision to produce it to formal presentation before an audience.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 326. Francophonie: Text and Context

**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** FREN 320 or faculty consent.

**Description:** Literature and culture of the French-speaking world outside France, including Africa, the Middle East, Asia and the Pacific, the Caribbean, the Americas.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 327. The French Detective Story

**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** FREN 320 or faculty consent.

**Description:** Exploration of the detective novel genre through study of works by French and francophone authors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 328. French Cinema

**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** FREN 320 or consent of instructor.

**Description:** Survey of French cinema from the late 19th century to the present. The works of directors such as Renoir, Truffaut, Godard and others are studied and analyzed.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 329. Paris in Literature and Film

**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** FREN 321 and FREN 322, or faculty consent.

**Description:** The representation of Paris in literature, cultural texts, and films from the Middle Ages to the present.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 330. French Civilization

**Term Typically Offered:** Fall Only

**Prerequisite(s):** FREN 321 and FREN 322, or faculty consent.

**Description:** Historical study of French culture and society from the beginnings to the 20th century, leading to an understanding of the development of French civilization.

**Note:** Required of all French majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 331. French Today

**Term Typically Offered:** Spring Only

**Prerequisite(s):** FREN 321 and FREN 322, or faculty consent.

**Description:** Study of contemporary French culture and civilization and in-depth exploration of current political and social issues.

**Note:** Required of all FREN majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### FREN 440. Cooperative Internship

**Description:**

**Note:** May be used to fulfill the minimum requirements for the major only if approved in advance by the department chair.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Grading Basis</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 455</td>
<td>Reading in French</td>
<td>3</td>
<td>Fall Only</td>
<td>FREN 321 and FREN 322, or faculty consent.</td>
<td>Study of literary and non-literary texts from France and/or other francophone regions.</td>
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<td></td>
</tr>
<tr>
<td>FREN 500</td>
<td>French Work Exchange</td>
<td>3-6</td>
<td></td>
<td></td>
<td>Members of a University of Louisville Work-Exchange Program with Montpellier administered by the International Center.</td>
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</tr>
<tr>
<td>FREN 506</td>
<td>Francophone Women Writers</td>
<td>3</td>
<td></td>
<td>FREN 321 and FREN 322, or faculty consent.</td>
<td>Readings of literary and non-literary texts by women of the French-speaking world.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 522</td>
<td>French Phonetics and Diction</td>
<td>3</td>
<td></td>
<td>6 hours of French at 300+ level or consent of instructor.</td>
<td>Pronunciation, diction, and intonation in theory and practice. Corrective exercises, recordings for the analysis of individual pronunciation problems. Poetry and prose studied in phonetic transcription, using the International Phonetic Alphabet; extemporaneous speaking and prepared readings.</td>
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</tr>
<tr>
<td>FREN 523</td>
<td>Advanced Communication Skills</td>
<td>3</td>
<td>Fall Only</td>
<td>FREN 321 and FREN 322, or faculty consent.</td>
<td>Advanced French language course focusing on written and oral expression through the study of French and/or francophone literary and cultural texts.</td>
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<tr>
<td>FREN 524</td>
<td>Theory and Practice of Translation</td>
<td>3</td>
<td>Spring Only</td>
<td>FREN 455.</td>
<td>Discusses translation theory and develops techniques for the effective translation of a variety of materials.</td>
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<tr>
<td>FREN 531</td>
<td>Special Topics in Literature and Cultural Studies</td>
<td>3</td>
<td></td>
<td></td>
<td>An intensive study of an aspect of French or Francophone literature and/or culture.</td>
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<tr>
<td>FREN 551</td>
<td>French Oral Practicum</td>
<td>3</td>
<td></td>
<td></td>
<td>Credit awarded upon demonstration of successful completion of course undertaken with prior approval of the department. Cooperating businesses in Montpellier provide jobs for participants who gain practical experience in a French work environment.</td>
<td>Pass/Fail</td>
<td>Only 3 credits total count toward French major. May be repeated for credit. Taught on Pass/Fail basis.</td>
</tr>
<tr>
<td>FREN 552</td>
<td>French Work: Exchange Research</td>
<td>3</td>
<td></td>
<td></td>
<td>Membership in the UofL work-exchange program with Montpellier administered by the International Center.</td>
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<tr>
<td>FREN 553</td>
<td>Independent Study I</td>
<td>1-3</td>
<td></td>
<td></td>
<td>Consent of department.</td>
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<tr>
<td>FREN 554</td>
<td>Independent Study II</td>
<td>1-3</td>
<td></td>
<td></td>
<td>Consent of department.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
FREN 590. Senior Capstone - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Declared French major, Senior standing, and completion of all 300- and 400-level requirements for the French major.
Description: Critical and reflective thinking to integrate undergraduate work and explore options for future employment.
Note: Required for all French majors.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 599. Special Topics 3 Units
Description: Topics of a unique or specialized nature in French language, literature or culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

General Studies (GEN)

GEN 95. Collegiate Success for A&S 2 Units
Prerequisite(s): Permission of instructor.
Description: Intermediate course for students in the College of Arts and Sciences. This course will focus on time management, study skills, resources, networking, how to learn from every experience (good or bad), policies related to academic standing, financing, staying on track to graduation, transitions, relationships, selecting courses, major, and electives, planning for the future, and how to overcome obstacles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 100. Student Success Center Orientation 1 Unit
Term Typically Offered: Fall, Spring
Description: An introduction to essential skills for undecided and pre-unit students: constructing a course-sequence plan for a coherent liberal arts education; understanding academic policies and requirements; selecting and declaring a major; choosing a career path; making use of the diverse resources of a metropolitan research university to prepare for life and work.
Note: Required for new students and transfer students with fewer than 24 hours credit earned.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 101. Arts and Sciences Orientation 1 Unit
Term Typically Offered: Fall, Spring
Description: An introduction to essential skills for Arts and Sciences students: constructing a course-sequence plan for a coherent liberal arts education; understanding academic policies and requirements; selecting and declaring a major; choosing a career path; making use of the diverse resources of a metropolitan research university to prepare for life and work.
Note: Required of students with fewer than 24 hours credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 103. Special Topics in College Mathematics for Non-STEM Majors 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Math placement testing, or course grade C or above in MAT 55 (or equivalent) for supplemented sections of GEN 103 (sections 40-49); or course grade C or above in MAT 65 (or equivalent) for regular sections of GEN 103 (sections 01-09, 75-76).
Description: GEN 103 for non-STEM majors serves as a required intervention course for students who do not achieve the college-readiness standard for MATH 105. This course allows for direct instruction and individualized instruction via computer assisted learning. Course topics are determined by an individual assessment of algebra skills and may include polynomials, linear equations, inequalities, systems of equations, factoring, and quadratic equations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 104. Special Topics in College Mathematics for STEM Majors 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Math placement testing or P (Pass) grade in GEN 103 or course grade C or above in MAT 65 (or equivalent).
Description: GEN 104 for STEM majors serves as a required intervention course for students who do not achieve the college-readiness standard for the entry-level MATH course required for their major. Intended for students who need MATH 107, MATH 111, and other higher numbered MATH courses. This course allows for direct instruction and individualized instruction via computer-assisted learning. Course topics are determined by an individual assessment of algebra skills and may include factoring, rational expressions, and equations, radical expressions, and quadratic equations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GEN 105. Special Topics in Supplemented College Reading 1-4 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): A score of less than 20 on the ACT Reading, or less than 470 on the SAT, Critical Reading, or less than 85 on the COMPASS examination.
Description: Supplemented College Reading is designed to provide instruction in college level reading strategies using disciplinary content materials. This course serves as a required intervention mandated by state law for college reading readiness, providing college study strategies and academic tutoring specific to a content course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 111. The Global Classroom: Defining the Study Abroad Experience 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Must be enrolled in a study abroad program or international internship.
Description: Examination, discussion and analysis of the international education experience. Course helps students apply various techniques to make full use of and evaluate their studies and/or internship abroad. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 201. Career Decision Making for Exploratory Students 1 Unit
Term Typically Offered: Fall, Spring
Description: Addresses the basic questions of career and major exploration that Exploratory (undecided) students face when entering college. The goal of the courses is an understanding of the career development process, its tools, and materials. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 202. Occupational Exploration: Your Career Choice 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Occasionally Offered
Description: This seminar will examine specific fields of study to support the career and major exploration process for students who want to further explore the suitability of a major/career track. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 203. Internship 1 Unit
Term Typically Offered: Occasionally Offered
Prerequisite(s): 2.5 GPA and 45 credit hours completed.
Description: Practical experience in an organization within the community, and reflection on how knowledge was applied in the field. Contact the Career Development Center for application procedures and guidelines. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 204. Leadership and Strategic Career Development 1 Unit
Term Typically Offered: Occasionally Offered
Description: This seminar will require students to engage in critical reflection, chart a path toward personal and professional growth, and craft a specified course of action to enhance leadership competence and career progression. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEN 301. Topics in Experiential Learning 1-12 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Approval of chair of the department of the student’s major and approval of the dean.
Description: Internship or other experiential learning opportunities, nationally or internationally. Student must be admitted to the program providing the experiential activity prior to enrollment in this course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Geography (GEOG)

GEOG 157. Elements of GIS 3 Units
Term Typically Offered: Fall, Spring
Description: Elements of geographic information systems: focus on introductory GIS functions including; spatial database development, analysis, graphical output, digital data generation, overlapping & updating. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 200. Human Geography in a Changing World - D2, SB 3 Units
Term Typically Offered: Fall, Spring
Description: The basic theme of this course is human geography as the study of place and the power that place has in the conduct of human affairs. Students will study the geographic distributions of human activities at global, regional and local scales, and the causes and consequences of those activities. Specific topics covered include population distribution and movement, economic activity, sustainable development, urban and rural settlements, and cultural and political environments. Students will also become acquainted with the tools that geographers use to understand, map, and analyze current affairs across world regions and gain good knowledge of how those tools are applied to real-world problem solving. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 256. Introduction to Quantitative Methods in Geography and Geosciences 3 Units
Term Typically Offered: Fall, Spring
Description: Introduction to the application of mathematical and statistical techniques to problem solving in geography. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Typically Offered</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 300</td>
<td>Globalization and Diversity - D2, SB</td>
<td>Fall Only</td>
<td>3</td>
<td>A contemporary approach to world regional geography that focuses on human diversity and the geographic changes that accompany today's rapid rate of globalization.</td>
</tr>
<tr>
<td>GEOG 301</td>
<td>Geography of Kentucky</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>Spatial patterns and processes of the Commonwealth; emphasis on human-environment interaction, population, settlement, and economic base.</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>Historical Geography of the United States</td>
<td>Spring Only</td>
<td>3</td>
<td>Analysis of the changing cultural landscape and settlement patterns of the United States. Emphasis on the changing spatial relationships of ethnic minorities to the majority group.</td>
</tr>
<tr>
<td>GEOG 308</td>
<td>Geography of China</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>The primary objective of this course is to help students gain a better understanding of the geography of China's history, culture and development. Analysis and interpretations of historical and contemporary issues in China from a geographical perspective.</td>
</tr>
<tr>
<td>GEOG 314</td>
<td>Africa: Environment and Resources</td>
<td></td>
<td>3</td>
<td>Natural and human potentials of the African continent, with particular reference to Sub-Saharan Africa. Exploration of social, cultural, economic and political factors influencing use of African resources. Emphasis on factors degrading the environment and constraining optimum use of natural and human resources.</td>
</tr>
<tr>
<td>GEOG 316</td>
<td>Geography of South Asia</td>
<td></td>
<td>3</td>
<td>An analysis of the Indian subcontinent; emphasis on the physical and cultural setting, political disturbances, population problems, and economic development.</td>
</tr>
<tr>
<td>GEOG 320</td>
<td>Geopolitics</td>
<td></td>
<td>3</td>
<td>This course introduces students to the main concepts and research themes in contemporary geopolitics. Geopolitics represents a broad engagement with the interactive relationships between power and place, and the construction, contestation and reconfiguration of political spaces that results. During the semester we will examine the formation of geopolitical images of the world, where these images come from, and how they have shaped our thinking and politics over time.</td>
</tr>
<tr>
<td>GEOG 324</td>
<td>Race and Place</td>
<td></td>
<td>3</td>
<td>In this course, students will explore the many ways race is socially constructed and intimately tied to space and place. Topics covered include: the spatiality of plantations, segregation vs. separation, the Great migration, race in urban and rural spaces, the intersection between race, gender and place, and race and place beyond the United States.</td>
</tr>
<tr>
<td>GEOG 327</td>
<td>Economic Geography</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>The distribution of economic activity and its associated characteristics that give character to place.</td>
</tr>
<tr>
<td>GEOG 328</td>
<td>Urban Geography</td>
<td>Fall Only</td>
<td>3</td>
<td>Examination of the association of activities in urban areas as they are expressed in patterns of land use and occupancy features.</td>
</tr>
<tr>
<td>GEOG 331</td>
<td>Population Geography</td>
<td>Spring Only</td>
<td>3</td>
<td>An examination of spatial variations in human population, with emphasis on population characteristics, growth, and mobility.</td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Environmental Policy</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>A study of environmental policy in the United States including: environmental policymaking among all government branches, environmental policy at the state and local level, economics of environmental policy, sustainability, environmental justice, climate change, and global implications of environmental policy.</td>
</tr>
</tbody>
</table>
### GEOG 350. Introduction to Mapping and Geospatial Technologies  
3 Units  
**Term Typically Offered:** Fall Only  
**Description:** Introduction to the concepts and methods of map construction and visualization, including scale, location, projection, design, symbolism, and compilation. Exploration of these concepts and methods through the use of geospatial technologies.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 355. Introduction to Remote Sensing  
3 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** GEOS 200, GEOS 350, or GEOS 301; and PHYS 111 or equivalent; or consent of instructor.  
**Description:** This course provides an introduction to the theory and application of remote sensing data with weekly lab reports for hands-on-experience in the acquisition and utilization of remotely-sensed data in geographical/environmental research. This course prepares for GEOG 556.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 356. Introduction to Spatial Statistics  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** GEOG 256.  
**Description:** Introduction to multivariate statistical analyses and spatial statistics, i.e. statistical methods that use space and spatial relationships directly in their mathematical computations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 357. Applications Development for GIS  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** GEOG 356 or GEOG 558.  
**Description:** Instruction in the fundamentals of Visual Basic for Applications, object oriented programming, basics of ArcObjects, syntax of writing VB statements, branching and looping structures, and design of user forms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 358. Introduction to Programming for GIS and Spatial Data Analysis  
3 Units  
**Term Typically Offered:** Spring Only  
**Description:** Students will learn introductory computer programming concepts and features. Students will learn the purpose of these structures and how to start using geographic information systems (GIS) and remote sensing (RS) platforms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 359. Special Topics  
3 Units  
**Term Typically Offered:** Fall, Spring  
**Description:** Investigation of topics not offered in regular courses. Topics will be announced in Schedule of Courses.  
**Note:** May be repeated for different topics up to a limit of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 360. Qualitative Methods for Undergraduates  
3 Units  
**Term Typically Offered:** Spring Only  
**Description:** The course introduces students to the basic tools and concepts of qualitative social research and their geographic application. The readings and in-class exercises have been selected to introduce you to the scope of qualitative methodological approaches used in geography and provide a sampling of references and resources that will help you work through your own research process. In examining how we generate and interpret data from the field-the social, environmental and political space where we learn about the world-we will critique and apply a variety of qualitative methods. In the process, you will have a chance to explore these methods in the context of your own planned or ongoing work and interest. We will focus on a wide range of methods but pay close attention to: conducting interviews, constructing questionnaires, participant observation and discourse analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 361. Sustainable Human Environments - WR  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** Natural sciences general education requirements.  
**Description:** An inquiry into the human impact on the environment and human adjustment to environmental disruptions.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 362. Disease, Ecology and Environmental Management in Africa - WR  
3 Units  
**Term Typically Offered:** Occasionally Offered  
**Description:** Relationship between disease agents and the human and physical environment in Africa. Impact of urbanization, industrial pollution and multinational corporations on disease causation and distribution.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** Cross-listed with PAS 384.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 365. Introduction to Remote Sensing  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** GEOS 200, GEOS 350, or GEOS 301; and PHYS 111 or equivalent; or consent of instructor.  
**Description:** This course provides an introduction to the theory and application of remote sensing data with weekly lab reports for hands-on-experience in the acquisition and utilization of remotely-sensed data in geographical/environmental research. This course prepares for GEOG 556.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 366. Disease, Ecology and Environmental Management in Africa - WR  
3 Units  
**Term Typically Offered:** Occasionally Offered  
**Description:** Relationship between disease agents and the human and physical environment in Africa. Impact of urbanization, industrial pollution and multinational corporations on disease causation and distribution.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** Cross-listed with PAS 384.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 367. Applications Development for GIS  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** GEOG 357 or GEOG 558.  
**Description:** Instruction in the fundamentals of Visual Basic for Applications, object oriented programming, basics of ArcObjects, syntax of writing VB statements, branching and looping structures, and design of user forms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 368. Introduction to Programming for GIS and Spatial Data Analysis  
3 Units  
**Term Typically Offered:** Spring Only  
**Description:** Students will learn introductory computer programming concepts and features. Students will learn the purpose of these structures and how to start using geographic information systems (GIS) and remote sensing (RS) platforms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 369. Special Topics  
3 Units  
**Term Typically Offered:** Fall, Spring  
**Description:** Investigation of topics not offered in regular courses. Topics will be announced in Schedule of Courses.  
**Note:** May be repeated for different topics up to a limit of 12 hours.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### GEOG 370. Independent Study  
1-3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GEOG 399. Senior Honors Seminar - WR 3 Units
Prerequisite(s): Junior class standing; admission to the departmental honors program.
Description: Investigation of a major scientific or social issue within the field of geography.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 401. Cooperative Internship 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Department sponsorship and approval.
Description: Cooperative Internship in Geography/Geosciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 441. Senior Thesis Proposal - WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): GEOG 256 and GEOG 558; no concurrent enrollment of either prerequisites allowed.
Description: GEOG 441 is the first of 2 steps Geography & Geosciences senior take to accomplish a College of Arts & Sciences culminating undergraduate experience (CUE). The students are expected to holistically apply disciplinary knowledge acquired at the Department of Geography & Geosciences. The course concludes with the development and presentation of a senior thesis proposal. Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 442. Senior Thesis - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): GEOG 441.
Description: Independent study for data collection and preparation of senior thesis.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 499. Senior Honors Thesis - WR 3 Units
Prerequisite(s): Senior standing; admission to departmental honors program.
Description: An intensive examination of a topical area in geography/geosciences undertaken with a designated faculty director.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 500. Globalization Seminar 3 Units
Prerequisite(s): GEOG 300 or permission of instructor.
Description: A discussion-based course that focuses on current events, global economies, and cultural and environmental issues resulting from globalization.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 510. Urbanism in the Global South: Cities and Space 3 Units
Term Typically Offered: Spring Only
Description: This course is a reading-based seminar. We learn about processes and practices within the Latin American and African city from a spatial, cultural, economic and political perspective.
Note: Cross-listed with LALS 510 and UPA 652.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 520. Geography and Nutrition Among African and African-American Populations 3 Units
Prerequisite(s): Consent of instructor.
Description: Comparison of geographical conditions, food culture, technology and socioeconomic factors among Africans and African-Americans affecting health and nutrition.
Note: Previously cross-listed with PAS 560.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 521. Medical Geography 3 Units
Prerequisite(s): Faculty consent.
Description: Introduction to concepts, methods and tools used to investigate geographic aspects of health and disease. Application of concepts and methods through analysis of health, population and environmental data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 522. GIS and Public Health 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: Application of tools and methods of analysis in geographic information systems (GIS) to public health. Use of ArcGIS software to manage and analyze health, census and spatial data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 524. Food and Race 3 Units
Description: This course will serve as a critical analysis of the intersection between race and food/agriculture. Topics covered include: 1) production, preparation and consumption patterns; 2) food production during slavery and sharecropping; 3) modern day agricultural labor; 4) food and health; 5) food and borders; and 6) food and national identity.
Note: Cross-listed with PAS 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 528</td>
<td>Planning, History and Issues</td>
<td>3</td>
<td>Description: The history of planning and contemporary issues with an emphasis on role of planning, zoning and law. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GEOG 328.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 529</td>
<td>Geography of Urban Issues</td>
<td>3</td>
<td>Description: Advanced urban geography course with unique geographic perspective for integration of socioeconomic problems in America's metropolitan areas. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GEOG 328, GEOG 558 or comparable Urban Geography and GIS course.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 530</td>
<td>Transportation Geography</td>
<td>3</td>
<td>Description: Analysis of distribution and transportation systems as functional entities capable of introducing and reacting to change within the economic region. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GEOG 200 or consent of instructor.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 531</td>
<td>GIS &amp; Urban Demographic Analysis</td>
<td>3</td>
<td>Description: Demographic analysis through the use of GIS technology. Emphasis placed on metropolitan area characteristics including population change, segregation, ethnic settlement, social and economic stratification and commuting. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GIS knowledge or concurrent tutorial.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 535</td>
<td>GIS and Retail Site Analysis</td>
<td>3</td>
<td>Description: Retail site analysis through use of GIS technology. Emphasis placed on market demand and supply characteristics. Physical site analysis, demographics, and competitive environment will be examined. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GIS knowledge or concurrent tutorial.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 536</td>
<td>Sustainable Transportation</td>
<td>3</td>
<td>Term Typically Offered: Fall Even Years Description: The course looks into the problems of developing sustainable transportation systems. We will examine the environmental and human problems associated with transportation; including climate change, air quality, consumption of non-renewable resources, safety, congestion and social equity. We will also explore possible solutions to these problems, including pricing, planning, policy, technology and education. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GEOG 200 or permission of instructor.</td>
<td>Fall Even Years</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Geography and Human-Environment Interactions</td>
<td>3</td>
<td>Description: The study of interactions between humans and the environment is inherently interdisciplinary and multi-scaler, two of the hallmarks of contemporary geographic research. Students taking this course will be exposed to the theoretical underpinnings of both social and ecological aspects of research. Through in-class discussions of both seminal and contemporary peer-reviewed literature, students will be expected to engage in an interdisciplinary exploration of how studies of human-environment interactions have evolved from disciplinary roots into the large, complex and transdisciplinary projects commonly funded today and expected in the future. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GEOG 555 or consent of instructor.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 548</td>
<td>Special Topics in Urban Analysis Applications in GIS</td>
<td>3</td>
<td>Description: Introduction to the application of GIS by local governments, non-profit agencies and other urban-related groups. Note: May be repeated if topics vary.</td>
<td>GEOG 357 or GEOG 558.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 549</td>
<td>Special Topics in Environmental Analysis Applications in GIS</td>
<td>3</td>
<td>Description: Introduction to the application of GIS to environmental problem solving. Note: May be repeated if topics vary.</td>
<td>GEOG 357 or GEOG 558.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 555</td>
<td>Remote Sensing</td>
<td>3</td>
<td>Term Typically Offered: Fall Only Description: Application of advanced techniques involved in the collection of digital imagery data from aircraft and spacecraft instruments.</td>
<td>GEOG 555 or consent of instructor.</td>
<td>Fall Only</td>
<td></td>
</tr>
<tr>
<td>GEOG 556</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
<td>Description: Application of advanced techniques involved in the collection of digital imagery data from aircraft and spacecraft instruments. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>GEOG 555 or consent of instructor.</td>
<td>Fall Only</td>
<td></td>
</tr>
</tbody>
</table>
Geosciences (GEOS)

GEOS 200. The Global Environment - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An introduction to the global physical environment, emphasizing the evolution and interaction of Earth's atmosphere, hydrosphere, lithosphere and biosphere; emphasizing energy and material cycles, and global change. An integrative spatial approach guided by scientific processes is used to study these interactions. Questions of global sustainability are addressed in the increasingly complex interactions between humans and their environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 218. The Global Environment Lab - SL 1 Unit
Term Typically Offered: Fall, Spring
Corequisite(s): GEOS 200.
Description: An introduction to the global environment, emphasizing the evolution of interaction of Earth's atmosphere, hydrosphere, lithosphere and biosphere; energy and material cycles, and global change. The lab is designed to expand upon concepts covered in the GEOS 200 lecture course through a series of in-class collaborative activities which emphasize a wide range of topics related to interpreting maps, weather and climate processes, tectonic processes and landforms. These activities include interactive Google Earth exercises.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 219. Contemporary Issues in Meteorology Laboratory - SL 1 Unit
Term Typically Offered: Fall, Spring
Corequisite(s): GEOS 220/PHYS 220.
Description: A lab designed to provide real-world examples of atmospheric processes through analysis and problem solving using basic concepts and physical principles relevant to the atmosphere.
Note: Cross-listed with PHYS 219.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 220. Contemporary Issues in Meteorology - S 3 Units
Term Typically Offered: Fall, Spring
Description: Contemporary issues serve as an introduction to the physical basis, distribution and consequences of global-scale meteorological phenomena.
Note: Cross-listed with PHYS 220.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 301. Geology for Scientists and Engineers 3 Units
Term Typically Offered: Spring Only
Description: A fundamental study of geological processes as applied to geomatics, structures, landforms, water resources and geologic hazards. The course includes a laboratory component in the rocks, minerals, topography and geology of Kentucky.
Note: Intended primarily for science and engineering majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GEOS 360. Global Environmental Change 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): GEOS 200 or GEOS 301 or GEOG 200 or ANTH 202 or BIOL 240 or PHYS 220.
Description: The geomorphic work of glaciers and ice sheets; the geochronology, stratigraphy, and paleogeography of the Ice Ages; climatic change.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 363. Climate Science 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): GEOS 200 or GEOS 220/PHYS 220.
Description: The scientific study of climate elements and controls emphasizing the global distribution of climate types and factors that give rise to their distribution.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 365. Biogeography 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): GEOS 200, GEOS 220, or GEOS 301.
Description: Study of environmental factors and the mechanisms of succession, dispersal, and migration as they relate to the character and geographical distribution of natural vegetation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 367. Geomorphology 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): GEOS 200 or GEOS 301.
Description: Study of the relationship of climate and tectonics to Earth-surface processes and the development of landforms and landscapes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 399. Senior Honors Seminar - WR 3 Units
Prerequisite(s): Junior standing; admission to the departmental honors program.
Description: Investigation of a major scientific or social issue within the field of geosciences.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 430. Practicum in Geography and Geosciences Education 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Description: For STEM Undergraduate Teaching Assistants (UTAs) who have been selected to participate in the NSF-STEP-funded PRIMES project as peer mentors and undergraduate teaching assistants (UTA) in undergraduate STEM courses. This practicum course is intended to provide a pedagogical foundation for successfully engaging with students in the classes to which each UTA is assigned.
Note: May be repeated for a maximum of 3 credit hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 540. Hydrology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): GEOS 200 or GEOS 301.
Description: Advanced study of the hydrologic cycle, drainage basin analysis, stream flow and flooding, pollution and utilization of water resources.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 565. Natural Hazards 3 Units
Prerequisite(s): GEOS 200 or GEOS 301.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 570. Water Resource Management 3 Units
Prerequisite(s): Consent of instructor.
Description: Water resources form a critical component of any socioeconomic or environmental system. This course provides an analysis of water resource issues impacting these systems including flood and drought hazards, surface and groundwater quantity/quality issues, and energy development. Water legislation and policy aspects are further integrated with these issues at various spatial scales, including case studies from within the US and across international boundaries that lead to conflict. At the outcome of this course students will develop a basic water resource management plan for a watershed in Kentucky.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 571. GIS and Water Resources 3 Units
Prerequisite(s): Consent of instructor.
Description: A study of the application of Geographic Information Science techniques in water resources research and management including: digital mapping of water resources, watershed delineation and modeling atmospheric, surface and groundwater processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### GEOS 590. Selected Topics in Geosciences
- **Description:** A detailed investigation of some restricted topic of geology or related discipline. Topic to be announced in Schedule of Courses. For class offerings for a specific term, refer to the Schedule of Classes.
- **Prerequisite(s):** Consent of instructor.
- **Credit Hours:** 3

### German (GERM)

#### GERM 000. German Study Abroad
- **Term Typically Offered:** 1-15 Units
- **Prerequisite(s):** Membership in a Language Study Abroad Program and/or programs approved by the Department of Classical and Modern Languages.
- **Description:** Credit awarded to students who have successfully completed the program. Upon return, the student will be required to demonstrate proficiency at a level agreed upon by the Department of Classical and Modern Languages prior to departure.
- **Credit Hours:** 3

#### GERM 121. Basic German I
- **Term Typically Offered:** Fall, Spring
- **Prerequisite(s):** GERM 141 or equivalent.
- **Description:** For beginners. Basic grammar, with practice in hearing, speaking, reading, and writing. Emphasis on communicative competency.
- **Credit Hours:** 4

#### GERM 122. Basic German II
- **Term Typically Offered:** Fall, Spring
- **Prerequisite(s):** GERM 121 or GERM 142.
- **Description:** Continuation of basic grammar, with practice in hearing, speaking, reading, and writing. Emphasis on communicative competency.
- **Credit Hours:** 4

#### GERM 123. Basic German III
- **Term Typically Offered:** Fall, Spring
- **Prerequisite(s):** GERM 121 and GERM 122 or equivalent.
- **Description:** Continuation of basic grammar, with practice in hearing, speaking, reading, and writing. Emphasis on communicative competency.
- **Credit Hours:** 4

#### GERM 141. Intensive German I
- **Term Typically Offered:** Summer Only
- **Prerequisite(s):** GERM 141 or equivalent.
- **Description:** Basic grammar, with practice in hearing, speaking, reading, and writing. Emphasis on communicative competency.
- **Credit Hours:** 6

#### GERM 142. Intensive German II
- **Term Typically Offered:** Summer Only
- **Prerequisite(s):** GERM 141 or equivalent.
- **Description:** Continuation of basic grammar, with practice in hearing, speaking, reading, and writing. Emphasis on communicative competency.
- **Credit Hours:** 6

#### GERM 200. Study Abroad
- **Term Typically Offered:** 1-15 Units
- **Prerequisite(s):** GERM 123.
- **Description:** Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion.
- **Credit Hours:** 1-15

#### GERM 201. Intermediate German I
- **Term Typically Offered:** Spring Only
- **Prerequisite(s):** GERM 123.
- **Description:** This course will review and provide practice in the fundamentals of verbs, including tenses, prefixes and modal auxiliaries. Fundamentals of the case will also be covered, including articles, adjectives and pronouns.
- **Credit Hours:** 3

#### GERM 202. Intermediate German II
- **Term Typically Offered:** Fall, Spring
- **Prerequisite(s):** GERM 201 or permission of instructor.
- **Description:** Continuation of the review and practice begun in Intermediate German I. Grammar of adverbs, prepositions, conjunctions and clauses, and advanced review and practice of conditional mode, indirect discourse, and passive voice.
- **Credit Hours:** 3

#### GERM 300. Study Abroad
- **Term Typically Offered:** 1-15 Units
- **Prerequisite(s):** GERM 201 or permission of instructor.
- **Description:** Participation in the University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion.
- **Credit Hours:** 1-15

#### GERM 311. Independent Study
- **Term Typically Offered:** 1-15 Units
- **Prerequisite(s):** Permission of instructor and department.
- **Description:** Independent study in German language, literature, and culture.
- **Credit Hours:** 3

#### GERM 313. Readings in German Literature: Themes and Great Issues
- **Term Typically Offered:** Summer Only
- **Prerequisite(s):** GERM 123 or GERM 142.
- **Description:** Critical reading and interpretation of works in German literature whose themes and issues have relevance to today’s world.
- **Credit Hours:** 3

#### GERM 321. German Conversation and Composition I
- **Term Typically Offered:** Spring Only
- **Prerequisite(s):** GERM 123 or GERM 142.
- **Description:** Intensive practice in conversation and composition. Not open to native speakers of German. Focus on conversation. For class offerings for a specific term, refer to the Schedule of Classes.
- **Credit Hours:** 3
GERM 322. German Conversation and Composition II  3 Units  
Term Typically Offered: Occasionally Offered  
Description: Intensive practice in conversation and composition. Not open to native speakers of German. Focus on composition.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GERM 500. German Study Abroad  1-15 Units  
Prerequisite(s): Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.  
Description: Credit awarded upon demonstration of successful completion of program undertaken with prior approval of the department, including a paper or project and an oral or written examination in the language and culture, administered under the supervision of a faculty member.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GERM 561. Independent Study  3 Units  
Prerequisite(s): Permission of instructor and department.  
Description: Independent study in German language, literature, and culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GERM 599. Special Topics  3 Units  
Prerequisite(s): Permission of instructor and department.  
Description: Topics of a unique or specialized nature in German language, literature or culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Global Public Health (GLPH)

GLPH 401. Cooperative Internship in Global Public Health (Humanities)  1-3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: A field placement or internship with a Humanities focus in an international health or national health-related setting. Requires field placement, internship, or service project of 80-120 hours.  
Note: Work may be completed in one term or spaced over the course of an academic year.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GLPH 402. Cooperative Internship in Global Public Health (Social Studies)  1-3 Units  
Term Typically Offered: Summer Only  
Description: A field placement or internship with a Social Science focus in an international health or national health-related setting. Requires field placement, internship, or Seville project of 80-120 hours.  
Note: Work may be completed in one term or spaced over the course of an academic year.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GLPH 403. Cooperative Internship in Global Public Health (Natural Sciences)  1-3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: A field placement or internship with a Natural Sciences focus in an international health or national health-related setting. Requires field placement, internship, or service project of 80-120 hours.  
Note: Work may be completed in one term or spaced over the course of an academic year.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GLPH 405. Independent Study in Global Public Health Studies (Humanities)  1-3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: Independent research project with a Humanities focus related to International Health completed under the mentorship of an affiliated faculty member. This research should result in a product such as a conference paper or poster, publication, or thesis. A thesis for a major may be used to fulfill this requirement with permission of the International Health Studies advisor and the department of the major.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GLPH 406. Independent Study in Global Public Health Studies (Social Studies)  1-3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: Independent research project with a Social Science focus related to International Health completed under the mentorship of an affiliated faculty member. This research should result in a product such as a conference paper or poster, publication, or thesis. A thesis for a major may be used to fulfill this requirement with permission of the International Health Studies advisor and the department of the major.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GLPH 407. Independent Study in Global Public Health Studies (Natural Sciences)  1-3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: Independent research project with a Natural Science focus related to International Health completed under the mentorship of an affiliated faculty member. This research should result in a product such as a conference paper or poster, publication, or thesis. A thesis for a major may be used to fulfill this requirement with permission of the International Health Studies advisor and the department of the major.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Greek (GR)

GR 101. Elementary Greek (Classical) I  3 Units  
Term Typically Offered: Fall Only  
Description: The elements of Greek.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GR 102. Elementary Greek (Classical) II
Term Typically Offered: Spring Only
Prerequisite(s): GR 101.
Description: The elements of Greek.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 201. Intermediate Greek I
Term Typically Offered: Fall Only
Prerequisite(s): GR 102.
Description: First semester: readings in Greek prose; second semester: readings in Greek poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 202. Intermediate Greek II
Term Typically Offered: Spring Only
Prerequisite(s): GR 102.
Description: First semester: readings in Greek prose; second semester: readings in Greek poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 301. Advanced Greek I
Term Typically Offered: Fall Only
Prerequisite(s): GR 202, or consent of instructor.
Description: Survey of classical Greek prose.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 302. Advanced Greek II
Term Typically Offered: Spring Only
Prerequisite(s): GR 202, or consent of instructor.
Description: Survey of classical Greek poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 303. Greek Prose Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): GR 202, or consent of instructor.
Description: Study of Greek idiom and style; practice in translation from English to Greek.
Note: May be repeated once for credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 401. Selected Readings I
Term Typically Offered: Fall Only
Prerequisite(s): GR 302, or consent of instructor.
Description: Intensive study of a major classical or post-classical prose author such as Herodotus, Thucydides, Plato, Xenophon or Plutarch.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 402. Selected Readings II
Term Typically Offered: Spring Only
Prerequisite(s): GR 302 or consent of instructor.
Description: Intensive study of a major classical poet or genre such as Homer, Sophocles, Euripides or Greek lyric poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 501. Special Topics in Greek Prose
Term Typically Offered: Occasionally Offered
Prerequisite(s): GR 402 or consent of instructor.
Description: In-depth translation and analysis of select ancient Greek prose authors and works with special attention given to current scholarship and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 502. Special Topics in Greek Poetry
Term Typically Offered: Occasionally Offered
Prerequisite(s): GR 402 or consent of instructor.
Description: In-depth translation and analysis of select ancient Greek poets and poetic works with special attention given to current scholarship and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Term Typically Offered: Occasionally Offered
Prerequisite(s): GR 202 or consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GR 552. Readings in the Greek New Testament III: The Epistles and Revelation
Term Typically Offered: Occasionally Offered
Prerequisite(s): GR 202 or consent of instructor.
Description: Study of the context, language, and literary form of the New Testament Epistles and Revelation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Health and Sport Sciences (HSS)

HSS 101. Beginning Swimming
Term Typically Offered: Fall, Spring
Description: Focuses on basic skills for swimming and water safety.
Intended to encourage current and future physical activity and provide insight into the benefits of cardiovascular activity.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 102. Advanced Swimming</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>This course, fundamentals and skills will be reviewed. Advanced swimming concepts will be taught to further participation in swimming.</td>
<td></td>
<td>Enroll is contingent upon passing a swimming competency test.</td>
</tr>
<tr>
<td>HSS 103. Life Saving</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Introduces students to the components of fitness: cardiovascular endurance, muscular strength and endurance, flexibility and body composition.</td>
<td>HSS 102 or equivalent or Red Cross Junior Life Saving Certificate</td>
<td></td>
</tr>
<tr>
<td>HSS 104. Scuba</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Provides students with the basic racquetball rules, strategies and basic racquetball skills and techniques to enjoy playing the game at an introductory level.</td>
<td>HSS 101</td>
<td></td>
</tr>
<tr>
<td>HSS 105. Step Aerobics</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Promotion of cardiovascular fitness through a walking program. Students can begin as any level of fitness and progress on an individual basis toward improvement.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSS 106. Introduction to Yoga</td>
<td>1</td>
<td>Fall, Spring</td>
<td>This course is designed to introduce the foundation poses of Yoga, the basics of healthy posture, simple breathing techniques, and progressive deep relaxation skills.</td>
<td>HSS 105 or consent of instructor.</td>
<td></td>
</tr>
<tr>
<td>HSS 107. Intermediate Yoga</td>
<td>1</td>
<td>Fall, Spring</td>
<td>This course is designed to review foundation poses of Yoga and to introduce intermediate level poses.</td>
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<td></td>
</tr>
<tr>
<td>HSS 108. Water Fitness</td>
<td>1</td>
<td>Fall, Spring</td>
<td>An activity class designed to enhance aerobic fitness, performed in water without submersion of the head. Information relating to health and fitness will be distributed throughout the semester.</td>
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</tr>
<tr>
<td>HSS 109. Weight Training</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Introduces students to resistance training, with an emphasis on proper form and technique development. Individuals will learn to develop a safe and efficient weight training program.</td>
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</tr>
<tr>
<td>HSS 110. Physical Fitness and Conditioning</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Introduces students to the components of fitness: cardiovascular endurance, muscular strength and endurance, flexibility and body composition.</td>
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<td></td>
</tr>
<tr>
<td>HSS 111. Aerobic Fitness</td>
<td>1</td>
<td>Fall, Spring</td>
<td>An exercise/fitness program, done to music, based on weight training, aerobic activity and flexibility.</td>
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<td></td>
</tr>
<tr>
<td>HSS 112. Mini-Marathon Training</td>
<td>1</td>
<td>Fall Only</td>
<td>This course is designed for students who are novice runners and desire to learn the basic training principles and the physiology of long distance running.</td>
<td></td>
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</tr>
<tr>
<td>HSS 114. Fitness Walking</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Promotion of cardiovascular fitness through a walking program. Students can begin as any level of fitness and progress on an individual basis toward improvement.</td>
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<td></td>
</tr>
<tr>
<td>HSS 115. Step Aerobics</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Promotion of cardiovascular fitness through a walking program. Students can begin as any level of fitness and progress on an individual basis toward improvement.</td>
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<td></td>
</tr>
<tr>
<td>HSS 116. Beginning Martial Arts</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Begins judo, karate, tae-kwan-do, tai-chi, as indicated.</td>
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<td></td>
</tr>
<tr>
<td>HSS 117. Intermediate Martial Arts</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Intermediate judo, karate, tae-kwan-do, tai-chi, as indicated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSS 118. Beginning Racquetball</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Provides students with the basic racquetball rules, strategies and basic racquetball skills and techniques to enjoy playing the game at an introductory level.</td>
<td></td>
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</tr>
</tbody>
</table>

University of Louisville
HSS 121. Billiards and Table Games
Description: This course covers fundamental strokes, techniques, strategies, and rules of billiards and table games.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 122. Badminton
Term Typically Offered: Occasionally Offered
Description: Designed to familiarize students with skills, practices, techniques, rules, and theory of badminton.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 123. Tennis
Term Typically Offered: Fall, Spring
Description: Designed to familiarize students with skills, practices, techniques, and theory of tennis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 124. Advanced Tennis
Prerequisite(s): HSS 123 or equivalent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 125. Golf
Term Typically Offered: Fall, Spring
Description: Instruction for acquiring the basic knowledge and skills for golf. The course will focus on grip, stance, swing, and other primary skill components of the game.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 126. Tumbling and Apparatus
Description: Teaches fundamental skills of tumbling and the use of apparatus.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 127. Beginning Fencing
Term Typically Offered: Fall, Spring
Description: Teaches fundamental skills, techniques, tactics, and basic rules necessary to participate in fencing activities at the novice level.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 128. Pickleball
Description: The purpose of this course is to learn the proper strokes and strategy of Pickleball. This game combines tennis and badminton skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 132. Canoeing
Prerequisite(s): HSS 102 or equivalent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 133. Backpacking and Hiking
Term Typically Offered: Fall, Spring
Description: Provides the knowledge of the physical activity and recreational components involved in backpacking and hiking. Emphasis is placed on planning, equipment, clothing, environmental impact and safety.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 134. Rappelling
Description: This course is designed to teach students the skills of rappelling. Emphasis will be placed on knots, seats, and safety. The majority of the class will be taught from a rappelling tower.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 136. Soccer
Term Typically Offered: Fall, Spring
Description: Development of fundamental skills necessary to skillfully play the team sport of soccer.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 137. Volleyball
Term Typically Offered: Fall, Spring
Description: Focuses on learning and developing basic volleyball skills such as passing, serving, attacking, and playing defense. Additionally, team concepts, strategies, sport history, rules and terminology, and sportsmanship are also covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 138. Basketball
Term Typically Offered: Fall, Spring, Summer
Description: Focuses on learning and developing basic basketball skills such as dribbling, shooting, passing, and playing defense. Additionally, team concepts, strategies, sport history, rules, terminology, and sportsmanship will be covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 140. Softball
Term Typically Offered: Occasionally Offered
Description: Focuses on learning and developing softball skills such as throwing, pitching, hitting, catching, and fielding. Additionally, team concepts, strategies, sport history, rules, and terminology, and sportsmanship are also covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 144. Physical Activity for the Older Adult
Description: Exercise program for the older adult.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 145. Activity for the Physically Challenged 1 Unit
**Prerequisite(s):** Permission of instructor.
**Description:** This course is designed for the University disabled student. An individual program is established based on the needs of the student. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 150. Special Topics: Physical Education Activities 1 Unit
**Term Typically Offered:** Fall, Spring, Summer
**Description:** Classes announced in Schedule of Courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 160. Beginning Aerobic Dance 1 Unit
**Description:** Develops cardiovascular fitness through the medium of dance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 161. Intermediate Aerobic Dance 1 Unit
**Prerequisite(s):** HSS 160 or equivalent.
**Description:** Teaches techniques of intermediate aerobic dance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 162. Beginning Modern Dance 1 Unit
**Term Typically Offered:** Occasionally Offered
**Description:** Teaches techniques of creative dance to include movement sequences leading to individual and group dances for initial composition. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 163. Intermediate Modern Dance 1 Unit
**Prerequisite(s):** HSS 162 or faculty consent.
**Description:** Teaches techniques of intermediate modern dance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 164. Beginning Country Western Dance 1 Unit
**Description:** Course is designed to teach the basic steps of two-steps, waltz, East-Coast swing, and a variety of line dances. Additional emphasis is on terminology and history. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 165. Ballroom Dance 1 Unit
**Term Typically Offered:** Fall, Spring
**Description:** This course is designed to teach students the basic ballroom dance steps including the foxtrot, waltz, cha-cha, East-West swing and others. Dance terminology and history of ballroom dance will be covered. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 166. African Dance 1 Unit
**Term Typically Offered:** Occasionally Offered
**Description:** This course is designed to teach students various West African dances, emphasizing movement, improvisation and individual expression. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 167. Country Line Dance 1 Unit
**Description:** This course is designed to teach students the basic steps to Country Western line dances and become familiar with the basic terminology and appropriate music selections for each dance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 180. First Aid and Safety Education 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Description:** Safety procedures and first aid measures; lecture and demonstration with skill training in all procedures. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 181. Academic Orientation 1 Unit
**Term Typically Offered:** Fall Only
**Description:** An overview of the University, College of Education and Human Development, and HSS Department requirements, procedures, and culture. An introduction to university life and skills for success for incoming freshmen.
**Note:** Cross-listed with EDTP 101.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 184. Healthy Lifestyles I 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Description:** This class is an exploration of the relationship of human characteristics and behaviors to wellness; specifically, the biological, psychological, and sociological factors that influence and promote healthy lifestyles and wellness.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 190. Life Skills Development in Collegiate Athletics 3 Units
**Term Typically Offered:** Fall, Spring, Summer
**Description:** This course will provide information on a wide range of topics with regard to the development of collegiate student-athletes and the current student-focused trends in athletics today.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 200. Introduction to Health Education 3 Units
**Term Typically Offered:** Fall, Spring
**Description:** An introduction to the historical, philosophical, and biopsychosocial foundations of health education and prevention science. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 201. Introduction to Prevention Science
Description: The foundations of school health and public health education as a profession, a discipline, and an occupation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 202. Human Anatomy & Physiology
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to structure and function of human body. Covers basic concepts related to anatomical terminology, cells, tissues, integument, skeletal, muscular, nervous, and endocrine systems. Interrelationships of organ systems are emphasized. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 225. Skill Acquisition & Analysis
Term Typically Offered: Spring Only
Description: The purpose of this course is to provide learning experiences that will lead to the development of teaching skills in both the individual and team sports. In addition to skill acquisition, the course will focus on how to plan and implement skill development in individual and team sports for students in grades 5-12. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 251. Officiating
Term Typically Offered: Spring Only
Description: Classroom and laboratory experiences in the ethics of sports officiating; the mastery, interpretation, and application of sports rules. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 252. Coaching of Aquatics
Prerequisite(s): Senior life saving.
Description: Basic techniques in various events. Knowledge of personnel, training procedures, facilities, equipment, and management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 253. Baseball Coaching
Description: The techniques of position play, offensive and defensive team play, strategy, rules, scoring, facilities, equipment, and management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 254. Track and Field Coaching
Description: Basic techniques in various events; knowledge of personnel, training procedures, facilities, equipment, and management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 255. Fundamentals of Football Coaching
Description: Fundamentals of individual play, offensive and defensive team play, rules, program organization, training methods, and management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 256. Fundamentals of Basketball Coaching
Description: Fundamentals of individual play. Offensive and defensive team play, organization, training methods. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 263. Environmental Biology
Description: A study of the biological principles of environmental effects on living organisms; emphasis on ecological relationships of man, including resource exploitation, pollution, environmental degradation, and human behavior. Note: Cross-listed with BIOL 263.

HSS 270. Introduction to Physical Education
Term Typically Offered: Fall, Spring
Description: This class focuses on the history, aims, objectives, and principles of physical education to their application to present-day educational programs.

HSS 274. Physical Education and Health for Elementary Teachers
Term Typically Offered: Fall, Spring, Summer
Description: Physical education and health practices, activities, and basic approaches for the elementary classroom teacher. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 275. Elementary School Physical Education Laboratory
Prerequisite(s): HSS 274 (or concurrent).
Description: Experiences in an elementary school situation related to HSS 274. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 293. Social and Psychological Dimensions of Physical Activity - SB
Term Typically Offered: Fall, Spring, Summer
Description: Emphasis on socialization and cultural diversity as these affect physical education. Examination of psychological factors that influence learning and enhance the effects of participation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 300. The Theory and Art of Movement
Description: Basic movements and the elements in them, observation of, and appreciation for, skilled movement; application of principles of movement. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 302. Nutrition in Healthy Living
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Restricted to HSS students only.
Description: Introduction to nutritional needs from prenatal to elderly. Issues relevant to diet and popular topics in nutrition.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 303. Human Nutrition
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 101, CHEM 201, or CHEM 105.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 310. Healthy Lifestyles II
Term Typically Offered: Fall, Spring, Summer
Description: A community based approach to addressing health issues facing Americans in the 21st century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 320. Growth and Motor Development Across the Lifespan
Term Typically Offered: Fall, Spring, Summer
Description: Provides the student with a knowledge base in the study of growth and motor behavior across the life-span for individuals with and without disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 326. Movement Skills and Concepts in Physical Education
Term Typically Offered: Fall Only
Prerequisite(s): HSS 320 The course develops content knowledge in foundational skills fundamental movement skills and concepts, rhythmic activities, gymnastics, lead-up/modified games, and fitness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 350. Culinary Nutrition
Term Typically Offered: Occasionally Offered
Description: Principles of healthy cooking techniques and hands-on experience to create flavorful and appealing nutrient dense foods. The focus is on using herbs and spices to enhance the taste and nutritional value of food.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 359. Fundamentals of Camping and Outdoor Recreation
Prerequisite(s): HSS 201 or consent of instructor.
Description: Development of camping and outdoor recreation skills and knowledge including backpacking, canoeing, car camping, etc. Certification through American Camping Association.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 364. Women's Health Issues - D1, SB
Term Typically Offered: Fall, Spring
Prerequisite(s): HSS 386 (or concurrent), CHEM 201, and knowledge including backpacking, canoeing, car camping, etc.
Note: Cross-listed with WGST 364.

HSS 374. Elementary Physical Education Methods
Term Typically Offered: Spring Only
Prerequisite(s): HSS 326.
Corequisite(s): HSS 493.
Description: HSS 374 is an elementary physical education methods course that provides in-depth analysis of basic, rhythmic movements, fundamental motor and manipulative skills, and physical fitness activities at the elementary grade level. Students will learn age appropriate strategies for instruction in elementary physical education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 377. Introduction to Statistics in Health and Human Performance
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 60+ hours.
Description: Theory and practice of measurement; administration of tests and interpretation of their results by fundamental statistical procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 380. Medicinals: Their Use and Misuses
Prerequisite(s): Junior standing.
Description: A study of the mechanisms by which drugs influence living systems, with emphasis on heavy metals, birth control drugs, pesticides, noxious gases, natural poisons, various nonprescription drugs, and the use and abuse of drugs affecting the central nervous system.
Note: Nursing students may not register for credit without consent of the instructor.

HSS 381. Anatomy and Physiology Lab 1
Term Typically Offered: Occasionally Offered
Prerequisite(s): HSS 202; HSS 386 (or concurrent).
Description: In this course you will learn to identify human organs, bones and muscles. You will be introduced to the collection and presentation of scientific data. There will be a strong emphasis on the connection between structure and function, usually in the healthy individual but with some exploration of abnormalities found in disease states.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 382. Wellness Coaching 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): HSS 184 or instructor consent.
Description: This course is designed to provide a hands-on wellness coaching opportunity for university students. Students will practice wellness coaching techniques with their peers in class, under direct supervision of their instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 383. Public Health Principles and Practices 3 Units
Term Typically Offered: Fall Only
Description: Philosophy of public health; the structure, personnel, and programs of public health agencies.
Note: Offered as needed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 384. Program Planning in Health Education 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): HSS 310 or consent of instructor.
Description: The effective design, implementation and evaluation of health instruction within the school and community setting; emphasis on the development of sequential learning opportunities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 385. Methods in Health Education 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 384 or permission of instructor.
Description: Selecting methods, resources and media for implementing health program plans for diverse learners. Focus on strategies for Coordinated School Health and community based programs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 386. Anatomy and Physiology of Exercise I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 202.
Description: This course will introduce the fundamental structure of the human body and the physiological mechanisms involved in normal functioning during exercise through lecture and student participation activities. This course specifically focuses on the histology, skeletal, muscular, cardiovascular, lymphatic, and respiratory systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 387. Biomechanics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 202 or BIOL 260.
Description: The anatomical and physiological analysis of human motion emphasized for the purpose of promoting normal development and improvement of performance. Mechanical physics principles will be discussed as they are related to the structure and function of the human body as it moves. Students will learn anatomy and structure of the neuromuscular system and be able to observe and describe human movement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 388. Principles of Athletic Conditioning 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 387.
Description: Restricted to students admitted to the School of Education. Practical application of physiological theory in order to write activity prescription for athletic conditioning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 389. Prevention and Care of Athletic Injuries I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 387.
Description: Restricted to students admitted to the College of Education and Human Development. Course stresses importance of prevention of injuries by conditioning and material aids and offers supervised training in caring of injuries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 390. Anatomy and Physiology of Exercise II 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 202, HSS 386 or BIOL 260.
Description: The course will introduce the fundamental structure of the human body and the physiological mechanisms involved in normal functioning through lecture and student participation activities. This course specifically focuses on the nervous, endocrine, digestive, urinary, and reproductive systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 391. Anatomy and Physiology Lab 2 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 202; HSS 390 (or concurrent).
Description: In this course you will learn to identify human organs, nerves, immune and respiratory systems. You will be introduced to the collection and presentation of scientific data. There will be a strong emphasis on the connection between structure and function, usually in the healthy individual but with some exploration of abnormalities found in disease states.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 392. Principles of Sport and Exercise Psychology

Description: Examination of psychological factors influencing participation in physical activity and performance of motor skills. Consideration of practices to enhance the psychological effects of participation.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 394. Foundations of Exercise Physiology

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 202 or BIOL 260.
Description: This course provides an overview of selected topics in exercise physiology and sports medicine with emphasis on practical applications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 395. Fitness Assessment and Prescription

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 394.
Description: Restricted to students admitted to the College of Education and Human Development. Theoretical overview of competencies necessary for Health Fitness Certification through the American College of Sports Medicine and Certified Personal Trainer credential through the National Strength and Conditioning Association including functional anatomy and biomechanics, exercise leadership, exercise programming, health appraisal and program administration.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 396. Lab Methods in Fitness Evaluation

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 394.
Description: Restricted to students admitted to the College of Education and Human Development. This course will provide hands-on experience with fitness and performance testing. It will cover health risk assessment, anthropometric measurements, and measurements of strength, flexibility, aerobic fitness, anaerobic capacity, and body composition. The course will also discuss how to create an appropriate testing battery and fitness testing for special populations. Students will learn to collect appropriate physiological data and be able to interpret it.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 397. Special Topics in Health and Sport Science

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Examination of well-defined topics not studied in regular undergraduate courses. Topics will be announced in Schedule of Courses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 400. Practicum in Health and Human Performance

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to HHP major.
Description: The purpose of HSS 402 is to provide HHP majors with opportunities to understand their intended discipline and have a chance to participate in practical applications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 409. Experiential Outdoor Education Leadership

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Major in HSS or consent of instructor.
Description: This course will develop the necessary skills to lead outdoor-experiential education programs.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 410. Theories of Sport Pedagogy

Term Typically Offered: Fall Only
Prerequisite(s): HSS 411 (or concurrent).
Description: Provides students with the basic effective teaching strategies along with research from which they are based.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 411. Theory and Analysis of Team Sport Skills

Term Typically Offered: Fall Only
Prerequisite(s): HSS 320, HSS 410 (or concurrent).
Description: Instruction, analysis, and evaluation of team sport skills.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 412. Theory and Analysis of Individual Sport Skills - CUE

Term Typically Offered: Spring Only
Prerequisite(s): HSS 411.
Description: Instruction, analysis, and evaluation of individual sport skills.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 418. Diverse Populations in Physical Activity and Health

Term Typically Offered: Fall, Spring, Summer
Description: The study of social and cultural systems of diverse groups, related to physical activity and health.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 419. Adapted Physical Education

Term Typically Offered: Spring Only
Description: Adapted physical education in an academic and practical approach to teach P-12 physical education students with disabilities in school settings during physical education classes and after school programs.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 430. Epidemiology of Health, Physical Activity and Nutrition 3 Units
Term Typically Offered: Spring Only
Description: The course provides an overview of the epidemiology of physical activity and nutrition in relationship to coronary heart disease, stroke, cancer and type II diabetes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 431. Leadership in Health Promotion - CUE 3 Units
Term Typically Offered: Spring Only
Description: Analysis of administrative and organizational factors of health education and promotion from within the program, within the organization, and between organizations. Emphasis will be placed on policy making, administration, and functional issues such as collaboration and consultation at the organizational level.
Note: Cross-listed with HSS 631.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 432. Biostatistics in Health and Exercise Science 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): HSS 377 or permission of instructor.
Description: An introduction to biostatistical methods in health and exercise science.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 434. Public Health Education Methods 3 Units
Term Typically Offered: Fall, Spring
Description: This course is designed to cover strategies and methods for delivering public health education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 445. Current Trends and Issues in Health Education - CUE 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Senior standing.
Description: Examination of current literature, research, and trends in the health education field, culminating undergraduate experience.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 446. Human Body in Health and Disease 3 Units
Description: Basic structure and function of body cells, tissues, organs, and organ systems; their interrelationship in health and disease. Infectious and degenerative diseases, mental and emotional problems, nutrition, environmental health, health care delivery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 460. Human Body in Health and Disease 3 Units
Description: Basic structure and function of body cells, tissues, organs, and organ systems; their interrelationship in health and disease. Infectious and degenerative diseases, mental and emotional problems, nutrition, environmental health, health care delivery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 461. Sexuality Education 3 Units
Term Typically Offered: Fall Only
Description: Survey of the dynamics of family life and parenting skills. Scope of family life education, methods, source materials and current issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 462. Alcohol and Drug Education 3 Units
Term Typically Offered: Fall Only
Description: Study of key components of alcohol and drug education, i.e., self-concept information, coping skills, refusal skills, and decision-making. Alcohol and drug education programs at the national, state, and local level will be reviewed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 463. Sexuality Education 3 Units
Term Typically Offered: Fall Only
Description: Survey of the dynamics of family life and parenting skills. Scope of family life education, methods, source materials and current issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 469. Administering Health Promotion and Disease Prevention Programs 3 Units
Prerequisite(s): Senior standing.
Description: Special problems in administering health promotion and disease prevention programs in a variety of community organizations. Program planning and organization; financing and budgeting; measuring program effectiveness; integration of programs and strategies with existing healthcare delivery systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 486. Advanced Exercise Physiology - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): HSS 394, HSS 387.
Description: Restricted to students admitted to the College of Education and Human Development. This course provides knowledge about exercise physiology through a uniform and physiology-based curriculum.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 492. Exercise Science Internship 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 402; HHP - Exercise Science Major; 90+ hours.
Description: This course involves practical application of the exercise science knowledge and skills through community engagement. The internship is an individually arranged course combining work experience with critical thinking skills project.
Note: Course may be repeated to a maximum of 9 hours with a maximum of 6 credits (2 sections per term).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 493. Internship in Physical Education 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 402.
Description: This course involves practical application of physical education knowledge and skills in a community setting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 494. Internship in Public Health Education 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 402.
Description: This course involves practical application of public health knowledge and skills in a community setting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 495. Internship in School Health Education 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): HSS 402.
Description: This course involves practical application of school health knowledge and skills in a community setting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 496. Internship in Wellness Coaching 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HSS 382.
Description: Provides a hands-on wellness opportunity for university students to coach participants toward a positive health behavior change. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 499. Directed Readings in Health and Sport Science 1-3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Faculty consent.
Description: Supervised readings pertaining to a research topic in Health Education. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 501. Stress and Tension Control 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HSS 202 or equivalent.
Description: A study of physiological, sociological, and psychological stresses and their underlying mechanisms of action. Emphasis on modification of stress via developed proficiency in relaxation techniques. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 503. Obesity: Causes, Control 3 Units
Prerequisite(s): HSS 202 or equivalent.
Description: A study of the physiological, psychological, and sociological factors in the development and modification of obesity. Laboratory experiences in the assessment of obesity will be provided. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 504. Physical Activity and Health 3 Units
Description: A study of the positive and negative influences of physical activity on diseases and infirmities that affect a healthy lifestyle. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 505. Stress and Disease 3 Units
Prerequisite(s): HSS 202 or equivalent.
Description: Relationship of stress to acute and chronic disease and the effects of contemporary stressors on psychophysiological responses. Examination of mechanisms of adaptation, treatment, and prevention. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 507. Senior Seminar in Exercise Physiology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HSS 387 and HSS 394; 90+ hours; and permission of instructor.
Description: Critical and comprehensive examination of well-defined topics related to exercise physiology that are not studied in regular courses. Topics will be announced in schedule of courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 530. Nutrition and Athletic Performance 3 Units
Prerequisite(s): HSS 302 and HSS 303; or consent of instructor.
Description: Principles of nutrition with special emphasis on nutrient and energy needs of athletes of optimal performance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 564. Women's Health Issues 3 Units
Description: This course will identify a broad range of health issues that can be unique to women or of special importance to women throughout the world. The course will examine the roles women play as both providers and consumers of health care nationally and internationally. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 565. Nutrition for Children and Adolescents 3 Units
Description: Nutritional needs during childhood are covered with emphasis on diet evaluation, menu planning and disease prevention. Nutrition units will be developed using the curriculum planning map. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 567. Healthy Sexuality and Aids Education 3 Units
Description: A study of the basic competencies required for AIDS/STD education and prevention within the framework of healthy sexual functioning. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 575. Administration of Physical Education Program and Athletics 3 Units
Description: Administration of the total physical education program on the secondary school level, including units on budget, staff, facilities, programs, equipment, public relations, and evaluation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 589. Prevention and Care of Athletic Injuries II 3 Units
Prerequisite(s): HSS 389 or equivalent or consent of instructor.
Description: Focuses on basic anatomy and its relationship in sports-induced injuries. Provides framework for adapting prevention, evaluation, management and rehabilitation techniques to aid in the treatment of athletic injuries. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 597. Special Topics in Health and Sport Science 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: Examination of well-defined topics not studied in regular courses. Topics will be announced in Schedule of Courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 598. Independent Study in HSS 1-3 Units
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Health Promotion, Physical Education & Sport Studies (HPES)

HPES 100. Skills for Healthy Lifestyles 2 Units
Description: Health screening to determine risk factors and experimental activities promoting positive health behaviors of the individual will be conducted. Discussion of elements of high-risk behavior and participation in physical activities will be central to this course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HPES 201. Introduction to HPES 2 Units
Description: The meaning and objectives of physical education from the perspectives of history, philosophy, contemporary programs, organizations, the discipline of HPES and the educational setting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Hebrew (HEBR)

HEBR 101. Elementary Hebrew I 3 Units
Term Typically Offered: Occasionally Offered
Description: For beginners. The elements of Hebrew, working on four skills: speaking, understanding, written, and reading. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HEBR 102. Elementary Hebrew II 3 Units
Term Typically Offered: Occasionally Offered
Description: Continued work on the elements of Hebrew, working on four skills: speaking, understanding, written, and reading. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HEBR 175. Traveling in Hebrew 3 Units
Description: Emphasis on spoken and written language needed to travel in Hebrew-speaking countries; elementary phrases, elementary reading ability. No writing is included.
Note: Does not apply toward A&S language requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HEBR 201. Intermediate Hebrew I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HEBR 102 or permission of instructor.
Description: More advanced work in Hebrew, building reading and writing skills in particular, while continuing to build ability to speak and to understand the spoken language. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HEBR 202. Intermediate Hebrew II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): HEBR 201 or permission of instructor.
Description: Continued work on communicative skills of understanding spoken language, speaking, reading and writing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HEBR 301. Biblical Hebrew I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Completion of HEBR 202 or consent of instructor.
Description: Study of grammar, morphology, syntax and vocabulary in order to read, translate and interpret texts from the Hebrew Bible. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HEBR 302. Reading Biblical Hebrew II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HEBR 301 or permission of instructor.
Description: Continued study of grammar, morphology, syntax and vocabulary in order to read, translate and interpret texts from the Hebrew Bible. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
History (HIST)

HIST 101. History of Civilizations I - D2, SBH  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: General introductory history survey, with global component. Must cover 1,000 years of history prior to about 1400 or 1500 A.D., with at least 1/3 of coverage devoted to a non-western society (or societies). For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 102. History of Civilizations II - D2, SBH  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: General introductory history survey, with global component. Must cover 300 years of history since about 1400 or 1500 A.D., with at least 1/3 of coverage devoted to a non-western society (or societies). For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 103. The World Since 1900 - D2, SBH  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introductory survey of world history from 1900 to the present, featuring a comparative approach. The course offers a broad overview of the major themes and events in the world since 1900 while enabling students to acquire a basic knowledge of the historical narrative of the recent past. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 211. American History I - D1, SBH  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A survey of United States history up to the end of the Civil War, emphasizing social, economic, and cultural factors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 212. American History II - D1, SBH  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A survey of United States history since the end of the Civil War, emphasizing social, economic, and cultural factors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 301. Early Political Thought  3 Units
Description: A general survey of political thought, typology, and systems from classical antiquity through the Middle Ages to the beginning of modern times. Note: Cross-listed with POLS 381.

HIST 302. Modern Political Thought  3 Units
Term Typically Offered: Spring Only
Description: Main currents in modern political thought, including liberal, Marxist-Leninist, socialist, anarchist, and conservative thought. Topics such as equality, alienation, participation, political obligation, political order, and change. Note: Cross-listed with POLS 382.

HIST 304. Historical Methods - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): HIST 101 and HIST 102 (or HIST 105 and HIST 106) and approved major in History.
Description: Introduction to the basic techniques of historical scholarship, including brief studies of historiography, research skills, use of primary and secondary sources, historical specializations, and the writing of history.
Note: Required of history majors.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HIST 305. Historical Geography of the United States  3 Units
Term Typically Offered: Spring Only
Description: Analysis of the changing cultural landscape and settlement patterns of the United States. Emphasis on the changing spatial relationships of ethnic minorities to the majority group.
Note: Cross-listed with GEOG 305.

HIST 308. Europe from 1500 to the French Revolution  3 Units
Term Typically Offered: Occasionally Offered
Description: A survey of early modern European political, social, economic, and cultural developments. Topics to include the Reformation, Absolutism, the Enlightenment.

HIST 309. Europe from 1800 to the Present  3 Units
Term Typically Offered: Summer Only
Description: A survey of modern European political, social, economic, and cultural developments. Topics to include Industrialization, Nationalism, World War.

HIST 310. Studies in History  3 Units
Term Typically Offered: Fall, Spring
Description: Topic to be chosen by instructor and announced in the online schedule of courses.
Note: Junior standing is recommended.
HIST 311. United States Economic History  
**Description:** Economics of colonial America and the United States. Analysis of financial institutions, public and private, associated with development.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**Note:** HIST 211 is recommended.

HIST 312. History of US Foreign Relations I  
**Term Typically Offered:** Fall, Spring  
**Description:** Analysis of the United States relations with other nations and peoples, emphasizing influences of political, economic, and ideological forces upon foreign relations from 1776-1920.  
**Note:** HIST 211 is recommended.

HIST 313. Comparative Environmental History  
**Term Typically Offered:** Spring Only  
**Description:** A comparative study of the historical roots of environmental issues in the U.S. and other regions of the world.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**Note:** HIST 212 is recommended.

HIST 314. History of US Foreign Relations II  
**Term Typically Offered:** Fall, Spring  
**Description:** Analysis of the United States relations with other nations and peoples, emphasizing influences of political, economic and ideological forces upon foreign relations since 1920.  
**Note:** HIST 212 is recommended.

HIST 315. United States Constitutional History I - WR  
**Term Typically Offered:** Fall Odd Years  
**Description:** Examines United States constitutional development from the Colonial Era to 1860.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**Note:** HIST 216 is recommended.

HIST 316. United States Constitutional History II - WR  
**Term Typically Offered:** Spring Even Years  
**Description:** Examines United States constitutional development from 1860 to present.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication - WR.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 317. African American Experience in Wartime  
**Term Typically Offered:** Fall, Spring  
**Description:** History of African Americans and the U.S. Military from the Revolution to the Gulf Wars.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**Note:** HIST 217 is recommended.

HIST 318. U.S. in the Sixties  
**Term Typically Offered:** Occasionally Offered  
**Description:** Major social, political, cultural and economic developments of the decade, with emphasis on the forces critical of mainstream America.  
**Note:** HIST 218 is recommended.

HIST 319. African-American History I - D1, SBH  
**Term Typically Offered:** Fall, Spring  
**Description:** A unified study of the economic, social, cultural, political, and educational development of African-Americans in the United States. Division date: 1865. (Social Sciences)  
**Note:** Cross-listed with PAS 319.

HIST 320. African-American History II - D1, SBH  
**Term Typically Offered:** Fall, Spring  
**Description:** A unified study of the economic, social, cultural, political, and educational development of African Americans in the United States. 1865 to present.  
**Note:** Cross-listed with PAS 320.

HIST 321. Black Culture and U.S. Democracy  
**Term Typically Offered:** Fall Only  
**Description:** Examination of the Black civil rights struggle to achieve cultural democracy and inclusion in mainstream cultural life and institutions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**Note:** HIST 322 is recommended.

HIST 322. The History of the Civil Rights Movement, 1900 to Present  
**Term Typically Offered:** Fall, Spring  
**Description:** Study of the modern civil rights movement, its leaders, programs and strategies, from 1900 to present.  
**Note:** Cross-listed with PAS 322.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 323. Modern American Social Movements  
Term Typically Offered: Occasionally Offered  
Description: Introduces students to the history of modern American social movements. Topics will include organizing strategies, motivations, tactics, and results.  
Note: Cross-listed with SCHG 323.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 324. The History of Women, 1700 to the Present  
Term Typically Offered: Fall, Spring  
Description: A comparative treatment of women's changing status, including material from European and American history.  
Note: Junior standing is recommended.  
Note: Credit may not be received for this course and WGST 331.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 326. History of Childhood in America - D1, SBH, WR  
Term Typically Offered: Fall, Summer  
Description: An analysis of the impact of socioeconomic and ideological change on the experience of children and youth from the colonial period to the present, with attention to the effects of race, class, and gender on childhood experience. (Social Sciences)  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Credit may not be earned for this course and WGST 332.  
Note: Cross-listed with WGST 332.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 329. History of the New South  
Term Typically Offered: Occasionally Offered  
Description: Survey of the history of the American South from 1865 to present, covering major social, economic, political and cultural trends and events.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 331. Colonial Latin America  
Term Typically Offered: Occasionally Offered  
Description: Origins of the colonial empires of Spain and Portugal in the Americas, development of colonial cultures, and the independence of Latin America.  
Note: Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 332. Latin America, 1820 to Present  
Term Typically Offered: Fall, Spring  
Description: Latin America since independence with emphasis upon social, economic, and political development.  
Note: Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 333. Women in Latin American History  
Term Typically Offered: Occasionally Offered  
Description: Examines the history of women and gender in Latin America, with an emphasis on women's political participation.  
Note: Credit may not be earned for this course and WGST 333.  
Note: HIST 331 or HIST 332 recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 339. Women in the Ancient World  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): HIST 344, or HIST 341, or HIST 342, or HIST 343.  
Description: A survey of the roles and status of women in the civilizations of the Ancient Mediterranean.  
Note: Junior standing and prior coursework in ancient history is strongly recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 340. Ancient Mediterranean World  
Term Typically Offered: Occasionally Offered  
Description: A chronological survey of the political, economic, and technological developments in Egypt, Mesopotamia, Syria-Palestine, and adjacent cultures from earliest times to 323 B.C.E.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 341. The Ancient Near East  
Term Typically Offered: Occasionally Offered  
Description: A chronological survey of the political, economic, and technological developments in Egypt, Mesopotamia, Syria-Palestine, and adjacent cultures from earliest times to 323 B.C.E.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 342. Ancient Greece  
Term Typically Offered: Fall, Spring, Summer  
Description: History of Greece from 1500 B.C.E. to 146 B.C.E.  
Note: Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 343. The Roman World  
Term Typically Offered: Fall, Spring, Summer  
Description: History of Rome from the beginning to 476 C.E.  
Note: Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 344. Introduction to Ancient Egypt  
Term Typically Offered: Fall, Summer  
Description: This course surveys the social, political, and cultural history of Pharaonic Egypt from ca. 300 BCE to 30 CE.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 345. Culture of the Ancient Near East 3 Units
Description: A survey of the social, legal, and religious institutions and literary achievements of Egypt, Mesopotamia, and Syria-Palestine from earliest times to 323 B.C.E.
Note: Credit may not be received for this course and HUM 300.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 346. Greek and Roman Culture 3 Units
Term Typically Offered: Fall Only
Description: A survey of ancient culture to the end of the Roman Empire; examples of ancient literature, art, and thought.
Note: Credit may not be received for this course and HUM 301.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 350. Origins of Christianity 3 Units
Term Typically Offered: Fall, Spring
Description: Early Christianity from its Judaic and Hellenistic background up to the period of Gregory the Great.
Note: HIST 340, HIST 343 or HIST 351 is recommended.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 351. Medieval Europe I 3 Units
Term Typically Offered: Fall Even Years
Description: First semester: Christian and Islamic civilization from the late Roman Empire through the Investiture contest. Second semester: High Middle Ages and the Renaissance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 352. Medieval Europe II 3 Units
Term Typically Offered: Occasionally Offered
Description: First semester: Christian and Islamic civilization from the late Roman Empire through the Investiture contest. Second semester: High Middle Ages and the Renaissance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 353. Europe in the Sixteenth Century 3 Units
Description: Europe's transition from the medieval to the early modern period; emphasis on the crisis of Christian culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 354. Renaissance Culture 3 Units
Term Typically Offered: Fall, Spring
Description: Civilization of the Renaissance in Italy; the Northern Renaissance; analysis of changing styles of thought and artistic expression.
Note: Credit may not be received for this course and HUM 303.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 355. European Ideas and Ideologies: Selected Topics - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Topics focus upon the thought of one or more generations of European thinkers between the age of Charlemagne and the present in the arts and sciences, and the effects of the ideas upon European culture and history.
Note: Topics will be announced in schedule of courses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 356. Islamic Middle East 3 Units
Term Typically Offered: Fall Only
Description: Muhammad and origins of Islam in seventh century; creation of Caliphate and Islamic Empire until thirteenth century; status of Christians and Jews; religious sectarianism; women; economics; relations with Europe.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 357. Middle Eastern History, 1453 to the Present - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Emphasis on Iran and the Arab world. The Ottoman Empire, European incursion. Mandate states, and independence. The contemporary Middle East.
Note: Approved for Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 358. The Scientific Revolution 3 Units
Description: The history of science and medicine in sixteenth- and seventeenth-century Europe.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 359. History of Modern Science 3 Units
Term Typically Offered: Occasionally Offered
Description: The history of science and medicine from 1800 to the present in Europe and the United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 360. The Origins of Islam 3 Units
Description: This course will concentrate on the history of the early period of Islam, including the life of the Prophet Muhammad and the early Caliphates.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>HIST 361</td>
<td>Modern Jewish History: The 20th Century</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>The Jewish experience in the twentieth century. Topics include development of the American Jewish</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<td>community, the Holocaust, Zionism and Israel.</td>
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<tr>
<td>HIST 362</td>
<td>The United States and the Middle East</td>
<td>3</td>
<td>Fall Only</td>
<td>Relations between America and the Middle East from 1800 to the present. Special emphasis on religion,</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<td>business, politics, and the military.</td>
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<td>HIST 363</td>
<td>Russian History I</td>
<td>3</td>
<td>Fall Only</td>
<td>Russian history from the earliest times to present. Nature of political system before and after 1917</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<td>; Russia and the West; modernization of Russian society. Division date is 1860.</td>
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<td>HIST 364</td>
<td>Russian History II</td>
<td>3</td>
<td>Spring Only</td>
<td>Russian history from the earliest times to present. Nature of political system before and after 1917</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<td>HIST 366</td>
<td>English History: Tudor Age to Welfare State</td>
<td>3</td>
<td>Fall Odd Years</td>
<td>Emphasis on Reformation; era of civil wars, aristocratic domination of politics, industrialization,</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<td>democracy, modern welfare state, thought, artistic expression.</td>
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<td>HIST 367</td>
<td>British Imperialism</td>
<td>3</td>
<td>Fall Only</td>
<td>The history of British imperialism from the end of the American Revolution in 1783 to the present,</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<td>including such issues as the abolition of slavery, the birth of responsible government, British rule in</td>
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<td>India, the &quot;Scramble for Africa,&quot; the development of the Commonwealth of Nations, colonial nationalism, and decolonization.</td>
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<tr>
<td>HIST 368</td>
<td>History of France, 1598-1799</td>
<td>3</td>
<td>Fall Odd Years</td>
<td>French society, government, and culture from the time of Henry IV to the Revolution. The Age of Absolutism and the Enlightenment.</td>
<td>Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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**Term Typically Offered:**
- Fall Only
- Fall Odd Years
- Spring Only
- Summer Only
- Occasionally Offered
- Fall Only
- Occasional

**Description:**
- The Jewish experience in the twentieth century. Topics include development of the American Jewish community, the Holocaust, Zionism and Israel.
- Relations between America and the Middle East from 1800 to the present. Special emphasis on religion, business, politics, and the military.
- Russian history from the earliest times to present. Nature of political system before and after 1917; Russia and the West; modernization of Russian society. Division date is 1860.
- British imperialism from the end of the American Revolution in 1783 to the present, including such issues as the abolition of slavery, the birth of responsible government, British rule in India, the "Scramble for Africa," the development of the Commonwealth of Nations, colonial nationalism, and decolonization.
- The history of British imperialism from the end of the American Revolution in 1783 to the present, including such issues as the abolition of slavery, the birth of responsible government, British rule in India, the "Scramble for Africa," the development of the Commonwealth of Nations, colonial nationalism, and decolonization.
- French society, government, and culture from the time of Henry IV to the Revolution. The Age of Absolutism and the Enlightenment.
- The history of British imperialism from the end of the American Revolution in 1783 to the present, including such issues as the abolition of slavery, the birth of responsible government, British rule in India, the "Scramble for Africa," the development of the Commonwealth of Nations, colonial nationalism, and decolonization.
- French society, government, and culture from the time of Henry IV to the Revolution. The Age of Absolutism and the Enlightenment.
- The history of British imperialism from the end of the American Revolution in 1783 to the present, including such issues as the abolition of slavery, the birth of responsible government, British rule in India, the "Scramble for Africa," the development of the Commonwealth of Nations, colonial nationalism, and decolonization.
- French society, government, and culture from the time of Henry IV to the Revolution. The Age of Absolutism and the Enlightenment.
- The history of British imperialism from the end of the American Revolution in 1783 to the present, including such issues as the abolition of slavery, the birth of responsible government, British rule in India, the "Scramble for Africa," the development of the Commonwealth of Nations, colonial nationalism, and decolonization.
- French society, government, and culture from the time of Henry IV to the Revolution. The Age of Absolutism and the Enlightenment.
- The history of British imperialism from the end of the American Revolution in 1783 to the present, including such issues as the abolition of slavery, the birth of responsible government, British rule in India, the "Scramble for Africa," the development of the Commonwealth of Nations, colonial nationalism, and decolonization.
HIST 385. Russian Cultural History - WR 3 Units
Description: An historical study of Russian culture, high and popular, from 1860 to present, including literature, art, film, and music.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 386. Modern Germany, 1848-1945: The Struggle for Unity 3 Units
Term Typically Offered: Fall Only
Description: Modern German political, social, and cultural development during the unification period, the Empire, the Weimar Republic, and the Hitler years.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 387. The Holocaust, Genocide, and Global Imagination - D2, SBH 3 Units
Term Typically Offered: Occasionally Offered
Description: A study of the historical events, with analysis and evaluation of the Holocaust and other modern genocides on humanistic thought and imagination.
Note: Cross-listed with HUM 387.
Note: Credit may not be received for this course and HUM 387.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 388. Modern China 3 Units
Term Typically Offered: Fall Only
Description: From Confucianism to Communism in China: society, economy and politics, 1600-present.
Note: Cross-listed with PST 398.
Note: Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 389. Modern Japan: Imperialism and Democracy 3 Units
Term Typically Offered: Spring Only
Description: This course reviews Japanese history from the Yamato state to the collapse of the bubble economy (500-1900s). We first examine how Japanese native culture and government interplayed with imported elements from China and Korea, forming its own distinctive political structure and society in the Tokugawa era (1600-1868). We focus on Japan’s modern experiences-state led nationalism and modernization since Meiji restoration, investigating how Western influence transformed Japanese state, society, culture and values. We explore origin, development, and the defeat of Japanese imperialism and militarism, analyzing how race, gender, and nationalities were constructed, and manipulated within Japanese empire in the wartime era (1931-45). Finally we examine postwar Japanese democracy and economic prosperity.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 401. Cooperative Internship in History - CUE 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Students must have a minimum GPA of 3.0 overall and in History; completion of 60 hours.
Description: An individually-arranged course combining a work experience with a related academic project.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 410. Honors History - WR 3 Units
Prerequisite(s): Admission to the Honors program.
Description: Exploration of an individual topic in consultation with faculty advisor.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 418. United States Military History 3 Units
Term Typically Offered: Fall, Spring
Description: The role of the military in U.S. history. Political, economic, and social aspects of U.S. history are emphasized as they pertain to the military.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 419. Western Military History - WR 3 Units
Description: Military history of the western world from the earliest times to the present. Focus will be on the broad relationships between socio-political organization and military institutions and behavior.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 498. Honors Seminar - WR 3 Units
Prerequisite(s): Admission to the Honors Program.
Description: Special opportunities to work in a seminar setting on topics chosen by the instructor.
Note: Open to students in the College and Departmental Honors Programs.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 499. Senior Honors Thesis - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Honors program.
Description: An independent study undertaken to complete requirements for graduation with honors in History.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 501. Independent Study 3 Units
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 502. Independent Study 3 Units
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 503. Advanced Studies in History 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: Selected topics in history that cross traditional geographic or chronological boundaries.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 504. Philosophy of History - CUE, WR 3 Units
Description: Speculations on meaning of history from ancient times to present; discussion of such contemporary issues as nature of explanation, objectivity, truth in history.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 506. Women in 19th Century America - WR  
**Prerequisite(s):** Completion of ENGL 102 or ENGL 105, or the equivalent.  
**Description:** Course focuses on material conditions, ideologies, and knowledge-systems that shaped American women’s lives in the 19th century, with attention to race, class, and regional differences.  
**Note:** Cross-listed with WGST 533.  
**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 508. American Environmental History - CUE, WR  
**Description:** Relationship between economic development and environmental change, focusing on America, pre-colonial to present.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 510. Studies in American History  
**Description:** Intensive study of particular topic, to be announced in course schedule.  
**Note:** May be repeated under different subtitles.  
**Note:** Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 511. History of the Old South - CUE, WR  
**Description:** Economic life, society, and government in the southern states from colonial times to the Civil War.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 512. History of the Jews in America - CUE, WR  
**Description:** The experience of Jews in America from the seventeenth century to the present, with attention to topics such as demography, the immigrant experience, anti-Semitism, religious movements and cultural developments.  
**Note:** Approved for the Arts and Science upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 513. U.S. Social Justice Movements  
**Prerequisite(s):** Junior standing.  
**Description:** Course will begin with abolitionism, then concentrate on social justice upsurges of the 20th century, with emphasis on women in the civil rights and Black liberation movements.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 514. United States Peace Movement  
**Description:** History of the peace movement in the United States from the beginning to the present. The course also examines nonviolent civil disobedience throughout U.S. history. Concentration on the twentieth century with the main focus being the Vietnam anti-war movement.  
**Note:** HIST 314 is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 516. History of American Civil Liberties - WR  
**Description:** Surveys the history of American civil rights, especially voting issues and civil liberties, especially speech and press issues, from colonial origins to present.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 518. Antebellum United States, 1800-1860 - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** An intensive study of the social, economic, political and intellectual aspects of United States history between the Era of the Early Republic and the eve of the Civil War.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 519. Gilded Age and Progressive Era United States, 1877-1929 - WR 3 Units

Description: An intensive study of the social, economic, political and intellectual aspects of American History from the end of Reconstruction to the beginning of the Great Depression.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 521. Colonial America to 1765 - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: History of North America, focusing on the British Colonies, beginning with the first native Americans, to the end of the Seven Years War.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 522. The American Revolution and the Confederation - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: An intensive study of the American Revolution and of the background of the Constitution.

Note: Approved for the Arts and Sciences upper-level requirement in written Communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 524. United States Civil War and Reconstruction - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: Political dissolution of the 1850s; political, social, economic, constitutional, and military events of the Civil War; the Reconstruction era.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 528. Recent American History, 1929-1945 - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: An intensive study of the economics, policies, and social and intellectual developments of the Great Depression and World War II years in the United States.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 529. Recent American History, 1945 to Present - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: An intensive study of the economics, politics, and social and intellectual developments of the modern period in the United States.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 530. History of Radio - CUE 3 Units

Term Typically Offered: Spring Odd Years

Description: This course explores the history of radio broadcasting from its beginnings to the present, with a focus on the way radio both reflected and shaped the political, cultural, technological, and economic history of the twentieth century. The primary focus is on radio in the United States, but the radio in other national and regional contexts is also considered. While the course devotes most of its attention to radio's so-called 'golden age' from the 1920s to the 1940s, there is also ample discussion of radio during the television and internet eras.

Note: It is recommended that students have completed HIST 304 before taking this course.

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 533. Twentieth-Century Latin America - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** The history of Latin America since 1900, with special emphasis upon the problems of social change and revolution.  
**Note:**histoire 332 is recommended.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 534. The U.S. and Latin America - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** The history of the international relations of the United States with the nations of Latin America, emphasizing economic, political, and ideological development.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** HIST 314 is recommended.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 535. The History of Mexico: Pre-Columbian to the Present - CUE, WR  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** Covers the history of Mexico from the Pre-Columbian period to the present, with emphasis on the nineteenth and twentieth centuries.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** HIST 331 or HIST 332 is recommended.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 537. Black Radicalism  
**Description:** Modern Black Nationalists, Marxists, and Black Panthers in the U.S., and their programs, ideologies, and behaviors.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 540. Advanced Studies in History - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** Advanced study of a special topic; meets established guidelines for WR courses; writing and rewriting of papers throughout the term.  
**Note:** Junior standing is recommended.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 542. Studies in Graeco-Roman History - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** Topics to be chosen by instructor (e.g., the Ancient Historians).  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 547. Studies in Russian History - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** Topics to be chosen by instructor (e.g., the early church, formation of the Russian state, administration, liberalism, the purges).  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 550. Studies in Ancient History - CUE, WR  
**Prerequisite(s):** 60 credit hours completed.  
**Description:** In-depth examination of special topics in ancient history.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 551. Studies in Medieval History - CUE, WR 3 Units  
Prerequisite(s): 60 credit hours completed.  
Description: Intensive work in selected periods of medieval history (e.g., High Middle Ages, Europe in the fourteenth and fifteenth centuries).  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 555. English Medieval History, 1066 to 1500 - WR 3 Units  
Description: An analysis of the political, economic, and social factors contributing to the development of the English nation from the Norman Conquest to the Wars of the Roses.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 559. U.S. and the Cold War Policy - CUE, WR 3 Units  
Prerequisite(s): 60 credit hours completed.  
Description: This course examines U.S. diplomacy during the Cold War (1945-1989).  
Note: HIST 314 is recommended.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 561. U.S. and Vietnam - CUE, WR 3 Units  
Prerequisite(s): 60 credit hours completed.  
Description: Analysis of diplomatic relations between the United States and Vietnam, concentrating on the 20th Century.  
Note: HIST 314 is recommended.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 563. The Middle Eastern Wars - CUE, WR 3 Units  
Prerequisite(s): 60 credit hours completed.  
Description: European technological superiority and Ottoman defeat. The Austrian and Ottoman wars. Balkan Wars. World War I. Turkish War of Independence.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 564. Byzantium and Islam 3 Units  
Description: This course will examine the relationship between the Byzantine state and the medieval Islamic caliphates and empires. The class will begin in the 6-7th centuries and continue onwards until the fall of the Byzantine Empire in the middle of the 15th century.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 565. Women and Sexuality in the Middle East - CUE, WR 3 Units  
Term Typically Offered: Occasionally Offered  
Description: Investigation of the cultural landscape of the Middle East before the rise of Islam; how the mix of the new religion together with prevailing customs of Late Antiquity and tribal Arabia laid a new framework for gendered relations across the region. Topics and debates pertaining to gender roles and sexuality in the medieval and early modern periods. The changing contours of women's lives during the nineteenth and twentieth centuries and the ambiguous legacy of modernization.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 571. The Renaissance - CUE, WR 3 Units  
Prerequisite(s): 60 credit hours completed.  
Description: The Italian urban powers; Hundred Years' War after 1415; Church and society on the eve of the Reformation; Italian and Northern humanism; invasion of Italy; early explorations.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 572. Age of the Reformation - WR 3 Units
Description: Intensive examination of causes of the Reformation, the program of the Reformers, the nature of the Roman Catholic Counter-Reformation, and the character of the sixteenth century.
Note: HIST 352 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 577. The French Revolution and Napoleon - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The Old Regime; influence of the Enlightenment; causes of the Revolution; courses and significance of the Revolution; emergence of Napoleon; rise and fall of the Empire.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 579. History of European Ideas: Selected Topics - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Selected topics on thinkers in the arts and sciences from one or more generations of European thought between the age of Charlemagne and the present. Includes the influence of ideas on their immediate society as well as on European culture and history.
Note: Topics will be announced in the Schedule of Courses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 582. Contemporary Europe 1945-Present - CUE, WR 3 Units
Description: History of Europe from the postwar era to the present.
Note: Approved for the Arts and Sciences upper-level requirement in written communication.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 583. Women in the Twentieth Century in Europe and the U.S. - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The history of women in Western society, including Europe and the U.S. in the twentieth century. Includes political, economic, social, and cultural developments.
Note: Junior standing is recommended.
Note: Cross-listed with WGST 531.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for HIST 583/WGST 531 and WGST 631.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 584. Women in East Asian History 3 Units
Description: The history of women in China from ancient times to the twentieth century, with comparisons to women's experiences in Japan, Korea, and Vietnam.
Note: Cross-listed with WGST 584.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 587. The Russian Revolutions - WR 3 Units
Description: Intensive examination of the Russian revolutions of 1905 and 1917, their chronology, their causes, historiographical issues.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 588. Feminism in Western Civilization, 1790-1920 - WR 3 Units
Description: Comparative analysis of feminist movements in United States, Britain, and Europe, stressing intellectual background, social composition, goals, and political strategies.
Note: Junior standing is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for HIST 588 or WGST 530 and WGST 630.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 589. History of American Sexualities - WR 3 Units

Description: Focuses on sexual behaviors and meanings in America from the Colonial period to the late twentieth century, and how sexual meanings impact on people's identities, choices, and social positions. Also concerns the interaction of gender, race, and class.

Note: HIST 211 and HIST 212 is recommended.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for this course and WGST 532.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 590. Studies in African History - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: Intensive study of a particular topic chosen by the instructor (e.g., slavery and the slave trade, traditional kingdoms).

Note: Cross-listed with PAS 590.

Note: Junior standing and completion of 9 hours of HIST and/or PAS are recommended.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 591. Civilizations of Ancient and Medieval India - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: An introduction to the civilizations of the Indian subcontinent until the eighteenth century. It covers history, interpretive studies and selected literary, religious and philosophical works, and visual arts.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 592. Civilizations of Modern India - CUE, WR 3 Units

Prerequisite(s): 60 credit hours completed.

Description: An introduction to the civilizations of the Indian subcontinent since the eighteenth century. It covers history, interpretive studies and selected literary, religious and philosophical works, and visual arts.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 593. American Image of the Middle East - CUE 3 Units

Prerequisite(s): 60 credit hours completed.


Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 594. Studies in Middle Eastern History - WR 3 Units

Description: Selected topics in Middle Eastern history and societies.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 595. Principles of Cultural History - WR 3 Units

Description: The study of major systematic views of the development of Western culture.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be received for this course and HUM 595.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 596. History of the Future - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: A conceptual approach that presents the premise that the history of the future is, in reality, the history of the present and the past.
Note: Junior standing is recommended.
Note: Approved for Arts & Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 597. Introduction to Public History 3 Units
Description: Introduction to nature, history, and methods of public history. Emphasis on relationship of historical scholarship to nonacademic applications.
Note: Faculty consent is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 598. Nationalism and Modernity in East Asia 3 Units
Description: The creation of modern nation-states in China, Japan, and Korea from 1840 to 1945.
Note: Cross-listed with AST 598.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 599. Oral History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: A study of the nature and development of oral sources in history, the creation and evaluation of them, and their application to research and teaching.
Note: Faculty consent is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Honors (HON)

HON 101. Honors Modes of Inquiry 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: An introduction to modes of inquiry in the Humanities, Natural Sciences, and Social Sciences. Satisfies the requirement for GEN 101.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 150. Honors Learning Community 9 Units
Term Typically Offered: Fall Only
Description: Honors Learning Community
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 190. Grawemeyer Scholars Seminar 1 Unit
Term Typically Offered: Spring Only
Description: This course is restricted to first-year Grawemeyer Scholars. It provides participants with practical information, campus resources, and requirements necessary to succeed as Grawemeyer Scholars. Meetings may include: faculty directors of the Grawemeyer Awards, Vice President for Research and Innovation, Director of Graduate Scholarships, Associate Director for Study Abroad, and other campus resources. Course will also include a handful of field trips into the community to meet with leaders of civic, cultural, educational, and community service organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 201. Brown Fellows Seminar 1 Unit
Term Typically Offered: Spring Only
Description: This course is restricted to students in the Brown Fellows Program. Students will enroll in the course a total of three times during their undergraduate careers, registering for a different section number (01, 02, 03) each time, for a total of three credit hours. Coursework will consist of readings and discussions to prepare students for and reflect on various aspects of the Brown Fellows program, including leadership training and local service; group international study; independent enrichment projects; and group travel throughout the state of Kentucky. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 202. Windows on the World 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program and of the Overseers Scholars Program are required for registration.
Description: Directed readings and discussion of local, national and global events from the perspective of the liberal arts and sciences, with emphasis on critical analysis and self-presentation in discussion and interview formats.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 211. Topics in Arts and Oral Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 212. Topics in History and Oral Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HON 213. Topics in Humanities and Oral Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 214. Topics in Social Sciences and Oral Communication - OC, SB 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 215. Topics in Arts and Written Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 216. Topics in History and Written Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 217. Topics in Humanities and Written Communication 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 218. Topics in Social Sciences and Written Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 219. Topics in Mathematics and Written Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Using structured problem solving strategies to solve authentic real world problems, with emphasis on writing clear, comprehensible solutions; researching and writing about topics related to diverse problem solving strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 320. Research Colloquium in Humanities 3 Units
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: A theme-based course offering opportunity for research in the Humanities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 321. Research Colloquium in Natural Sciences 3 Units
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: A theme-based course offering opportunity for research in the Natural Sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 322. Research Colloquium in Social Sciences 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: A theme-based course offering opportunity for research in the Social Sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 331. Honors Seminar in Humanities 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Humanities. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 336. Honors Seminar in Humanities - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Humanities. Topics vary.
Note: Approved for the Arts and Sciences upper-level requirements in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 341. Honors Seminar in Social Sciences 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Social Sciences. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HON 346. Honors Seminar in Social Sciences - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Social Sciences. Topics vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 351. Honors Seminar in Natural Sciences 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Natural Sciences. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 356. Honors Seminar in Natural Sciences - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Natural Sciences. Topics vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 399. Overseers International Seminar 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Permission of Honors Director and concurrent enrollment in correlated Honors Scholars Seminar.
Description: Travel outside the United States for first-hand study of the culture(s) examined in the related Honors Scholars Seminar. (Students accepted to course will be awarded partial scholarships.)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 410. Capstone Senior Seminar in Humanities 3 Units
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Multidisciplinary approaches to knowledge, using students’ senior research projects in Humanities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 411. Capstone Senior Seminar in Natural Sciences 3 Units
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Multidisciplinary approaches to knowledge, using students’ senior research projects in the Natural Sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 412. Capstone Senior Seminar in Social Sciences 3 Units
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Multidisciplinary approaches to knowledge, using students’ senior research projects in the Social Sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 420. Honors Thesis - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior Standing.
Description: An intensive examination of a topical area, undertaken with a designated faculty advisor.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Honors Thesis hours may be counted for either Honors credit or departmental credit, not both.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 431. Honors Seminar in Humanities 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Humanities. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 436. Honors Seminar in Humanities (WR) - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Humanities. Topics vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 441. Honors Seminar in Social Sciences 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Social Sciences. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HON 446. Honors Seminar in Social Sciences (WR) - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Social Sciences. Topics vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 451. Honors Seminar in Natural Sciences 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Natural Sciences. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HON 456. Honors Seminar in Natural Sciences (WR) - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of the Director of the University Honors Program.
Description: Interdisciplinary Honors seminar which may apply to an upper-level divisional or college requirement in Natural Sciences. Topics vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Humanities (HUM)

HUM 101. World Literature to 1700 - AH, D2 3 Units
Term Typically Offered: Fall, Spring
Description: An introduction to critical thinking about world culture through selected readings in major literary forms from ancient times to 1700.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 102. World Literature After 1700 - AH, D2 3 Units
Term Typically Offered: Fall, Spring
Description: An introduction to critical thinking about world culture through selected readings in major literary forms since 1700.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 105. Introduction to Comparative Humanities - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: This course is an introduction to Comparative Humanities offering an array of Humanities disciplines and creating genres through global and diverse cultures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 151. Creativity and the Arts - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to the fundamental vocabulary, principles, analytical processes, and styles of the creative arts (painting, sculpture, architecture, and the printed image) with an emphasis on the performing arts (theatre, dance, music, film, and television). The course will include a variety of individual and group activities focused on creativity and performance in the classroom and in the community.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 152. Cultures of America - AH, D1 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Interdisciplinary study of the arts and humanities in contemporary American culture emphasizing the convergence of European, African, Hispanic, Asian, and indigenous cultures as well as the distinguishing characteristics of each culture as revealed in three of the following areas: fine arts, drama, literature, philosophy, religion, and popular entertainment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 216. Introduction to World Religions - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: The study of the principal world religions (Judaism, Christianity, Islam, Hinduism, Buddhism and indigenous traditions) in their cultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 217. Introduction to Indigenous Religions of Africa, Americas and the Pacific Basin 3 Units
Term Typically Offered: Occasionally Offered
Description: An introduction to the religious beliefs and practices of selected indigenous communities in Africa, the Americas and the Pacific Basin.
Note: Cross-listed with PAS 217.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 218. Introduction to Eastern Religious Traditions - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A survey of the history, beliefs and sacred literatures of the religions of South and East Asia from the perspectives of the humanities and the history of religions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 219</td>
<td>Introduction to Western World Religions - AH, D2</td>
<td>3 Units</td>
<td>Fall Only</td>
<td>Sophomore standing.</td>
<td>A comparative introduction to western world religions, Judaism, Christianity, and Islam, through a systematic survey of history, scripture and interpretation, doctrine, practice and aspects of religious material and literary culture. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 224</td>
<td>Introduction to Film - AH, D2</td>
<td>3 Units</td>
<td>Fall, Spring, Summer</td>
<td>Sophomore standing.</td>
<td>Introduction to the fundamentals of film form and film content, including narrative, mise-en-scene, cinematography, editing, genre, acting, and sound, with emphasis on relationships between these elements and diverse cultural contexts. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 300</td>
<td>Ancient Near Eastern Cultures</td>
<td>3 Units</td>
<td>Fall, Spring, Summer</td>
<td>Sophomore standing.</td>
<td>Interdisciplinary study of the ancient Near East (Egypt, Mesopotamia, Syria-Palestine) through the fourth century B.C.E., with emphasis on the distinctive characteristics of the arts, literature, and religious and philosophical thought in their cultural context. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 301</td>
<td>Ancient Greek and Roman Cultures</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Sophomore standing.</td>
<td>Interdisciplinary study of ancient Greece and Rome with emphasis on the distinctive characteristics of the arts, literature, and religious and philosophical thought in their cultural context. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 302</td>
<td>Medieval Culture</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Sophomore standing.</td>
<td>Interdisciplinary study of the Middle Ages with emphasis on the distinctive characteristics of the arts, literature, and religious and philosophical thought in their cultural context. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 303</td>
<td>Renaissance Cultures</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Sophomore standing.</td>
<td>Interdisciplinary study of the Italian Renaissance, the Northern Renaissance, and of consequent traditions, with emphasis on the distinctive characteristics of the arts, literature, and religious and philosophical thought in their cultural context. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 304</td>
<td>Culture of the Modern Period</td>
<td>3 Units</td>
<td>Fall, Spring, Summer</td>
<td>Sophomore standing.</td>
<td>Interdisciplinary study of the Modern Period, from the Enlightenment to the present, with emphasis on the distinctive characteristics of the arts, literature, and religious and philosophical thought in their cultural context. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 305</td>
<td>American Culture</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Sophomore standing.</td>
<td>An analysis of American thought and artistic expression since 1900. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 306</td>
<td>Survey of Islamic Thought and Culture</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Sophomore standing.</td>
<td>An overview of Islamic religious, cultural, political, and social experience through the centuries. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 307</td>
<td>East Asian Cultures - AH, D2</td>
<td>3 Units</td>
<td>Fall, Summer</td>
<td>Sophomore standing.</td>
<td>A survey of literature, arts and thought in China and Japan in their historical context. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>HUM 308</td>
<td>Studies of Religion - AH</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Sophomore standing.</td>
<td>The interdisciplinary study of religion as a cultural phenomenon, with emphasis on individual, social, mythical, literary and textual manifestations. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>HUM 309</td>
<td>Survey of Jewish Thought and Culture</td>
<td>3 Units</td>
<td>Fall Only</td>
<td>Sophomore standing.</td>
<td>An overview of Jewish religious, cultural, social, and political experience through the centuries in the light of current interpretation. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
</tbody>
</table>
HUM 310. Religion and Culture
Term Typically Offered: Fall, Spring
Description: This course examines the intersections of religion and culture. It does not focus on religious texts; instead, its focus is on how religion plays a part in people’s everyday lives as a source of meaning and order, as well as by creating a nexus of rituals, communities, spaces, and identities. It analyzes world religion (Judaism, Christianity, Islam, Buddhism and Hinduism) as well as local and indigenous religious traditions from a cultural perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 311. Hebrew Bible/ Old Testament
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: Study of the outlook of the Hebrew Bible/Old Testament in relation to the cultures from which it is derived.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 312. New Testament
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Study of the canonical and apocryphal books of the New Testament as an expression of the world outlook of the primitive Christian community.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 313. Introduction to the Qur'an
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore Standing.
Description: An introduction to Islam’s most sacred text, the Qur’an, which contains the fundamental creed, rituals, ethics and laws of Islam. An examination of the historical and cultural contexts of its origin and subsequent interpretation, as well as its main themes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 314. Buddhist Scriptures
Prerequisite(s): Sophomore Standing.
Description: A survey of Buddhist sacred texts ranging from canonical scriptures to apocrypha and esoteric manuals selected from major Asian and/or East Asian Buddhist traditions, as an introduction to a range of Buddhist beliefs and practices that represent both established Buddhist orthodoxies and popular tradition operating at their periphery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 315. Alternative Judaisms - AH, D2
Term Typically Offered: Spring Only
Description: This course will explore the richness of religious diversity within Judaism past and present by focusing on what are considered “normative” and “alternative” beliefs, rituals and practices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 316. Modern Islamic Thought
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: A study of important Islamic movements and thinkers in the Indian subcontinent, Egypt, and Turkey, in the nineteenth and twentieth centuries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 317. Modern Jewish Thought
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: Creative and discursive writers representing nineteenth- and twentieth-century thought on theology, religion, culture, and society.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 319. A Survey of Christian Thought and Culture
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: An overview of Christian religious, cultural, social, and political experience through the centuries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 320. Research and Writing in the Humanities - AH, WR
Term Typically Offered: Fall, Spring, Summer
Description: This course introduces students to interdisciplinary writing and research strategies in the Humanities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 321. Modern Fiction: Nineteenth Century
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: Study of important developments in the technique and content of fiction in selected European masterpieces, including works representative of several continental traditions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 322. Modern Fiction: Twentieth Century
Term Typically Offered: Spring Only
Prerequisite(s): Sophomore standing.
Description: Study of important developments in the technique and content of fiction in selected European masterpieces, including works representative of several continental traditions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 323. Modern Drama
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: Study of major movements and dramatists from Ibsen to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 324. Approaches to Film Interpretation 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Sophomore standing.
Description: An in-depth study of the structural, thematic, and historical elements of film as an art form, providing a range of approaches to interpreting films in cultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 325. Survey of Film and Culture 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Sophomore standing.
Description: A study of films in their cultural and historical contexts.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 326. Studies in Film and Culture 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: A study of a specific group of films in relation to their specific cultural and historical contexts.
Note: May be repeated up to three times if different selections of films are studied.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 328. Approaches to Film Interpretation 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Mythology of Greek gods and goddesses through the study of ancient texts, major sites of worship, and ancient representations of these deities.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 330. Humanities and Gender 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Analysis of sex roles as embodied in classic works in philosophy, literature, history, drama, and art in ancient, medieval, modern, and contemporary times.
Note: Cross-listed with WGST 303.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 331. Humanities and Gender - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Analysis of sex roles as embodied in classic works in philosophy, literature, history, drama, and art in ancient, medieval, modern, and contemporary times.
Note: Cross-listed with AST 340.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 332. Modern Christian Thought 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: An introduction to Christian thought and issues through a study of the writings of modern Christian thinkers.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 333. Modern Christian Thought 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: An introduction to Christian thought and issues through a study of the writings of modern Christian thinkers.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 336. Modern Christian Thought 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: An introduction to Christian thought and issues through a study of the writings of modern Christian thinkers.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 338. Greek Mythology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Mythology of Greek gods and goddesses through the study of ancient texts, major sites of worship, and ancient representations of these deities.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 339. Studies in World Mythology - AH, D2 3 Units
Term Typically Offered: Occasionally Offered
Description: Comparison and contrast of different mythic systems. Emphasis on myth as response to the demands of specific cultural experiences.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 340. Women and Religion 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Sophomore standing.
Description: Religious imagery for the social-cultural roles of women, both past and present.
Note: Cross-listed with WGST 340.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 341. South Asian Religious Thought and Culture - AH, D2 3 Units
Term Typically Offered: Occasionally Offered
Description: Study of Hinduism, Jainism, Buddhism, and Sikhism and their interrelationship with the cultures of South Asia (India, Sri Lanka, and Pakistan).
Note: Cross-listed with AST 340.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 342. Eastern Mysticism 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: The writings of outstanding Eastern mystics belonging to several religious traditions, such as Kahlil Gibran, Rab’ia al-Basri, Hamid al-Ghazzali, Jalaluddin Rumi, Muhammad Iqbal, Sri Aurobindo, Rabindra-Nath Tagore, The Buddha, and Lao Tzu.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 343. East Asian Religious Thought and Culture - AH, D2 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: Study of the Confucian, Taoist, Buddhist, and Shinto and their interrelationships with the cultures of China, Korea, and Japan.
Note: Cross-listed with AST 343.
For class offerings for a specific term, refer to the Schedule of Classes [link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 344. Religion in the United States
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: The varieties of religious experience in the United States: native traditions, manifestations and adaptations of Christianity, and other religions practiced in the United States. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 345. African Americans & Islam
Term Typically Offered: Spring Only
Description: This course explores the complex relationship between African Americans and Islam. It begins with a discussion of Islam in Africa prior to and during slavery, the early 20th century communities, rise of the Nation of Islam, orthodox Islam, and the influence of Islam on nationalism and artists.
Note: Cross-listed with PAS 349.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 350. The Literary Fairy Tale - AH
Term Typically Offered: Fall, Spring
Description: An investigation of the literary fairy tale from the Renaissance to the twentieth century.
Note: Cross-listed with M L 350.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 351. Survey of African Religion and Culture
Term Typically Offered: Fall Only
Description: This course discusses various African understandings of religion by examining specific traditions, beliefs, and practices from Ancient Egyptians, Yoruba, Dogon, and Dagara, among others. Christianity and Islam are discussed as unique parts of the African religious experience. (Humanities)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 354. Masterpieces of Ancient Greece - WR
Term Typically Offered: Fall Only
Prerequisite(s): Sophomore standing.
Description: Close study of selected great works in their cultural context.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 355. Masterpieces of Ancient Rome - WR
Term Typically Offered: Spring Only
Prerequisite(s): Sophomore standing.
Description: Close study of selected great works in their cultural context.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 356. Masterpieces of the Middle Ages - WR
Term Typically Offered: Spring Only
Prerequisite(s): Sophomore standing.
Description: Close study of selected great works in their cultural context.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 357. Masterpieces of the Renaissance - WR
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: Close study of selected great works in their cultural context.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 358. Masterpieces of the 17th & 18th Centuries - WR
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: Close study of selected great works in their cultural context.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 359. Masterpieces of the 19th & 20th Centuries - WR
Term Typically Offered: Fall, Spring
Prerequisite(s): Sophomore standing.
Description: Close study of selected great works in their cultural context.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 361. Selected Topics
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Content to be indicated in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 362. Selected Topics
Term Typically Offered: Spring, Summer
Prerequisite(s): Sophomore standing.
Description: Content to be indicated in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 363. Special Topics - WR
Term Typically Offered: Occasionally Offered
Description: Content to be indicated in Schedule of Courses.
Note: May be repeated when topics vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 365. Theories of Music
3 Units
Prerequisite(s): Sophomore standing.
Description: An examination of theoretical problems arising from the composition, performance, and hearing of music, such as musical meaning and the relation of music to the emotions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 366. Theories of Literature - WR
3 Units
Prerequisite(s): Sophomore standing.
Description: An examination of theoretical problems arising from the authoring, interpretation, and evaluation of literary texts, such as authorial intention and the nature of fiction.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 367. Theories of the Visual Arts
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: An examination of theoretical problems arising from the creation and understanding of visual works of art, such as representation, functionalism, and style.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 368. Theories of the Theatre
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: An examination of theoretical problems arising from rehearsal and performance of dramatic texts, such as the relation of interpretation to meaning and emotion to acting.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 369. Asian Theatre
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore Standing.
Description: An examination of the theatre forms of East Asian culture and aesthetics with particular emphasis on those forms that have proved influential on the Western theatre of the 20th century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 376. Studies in American Culture
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: Interdisciplinary analysis of an important theme, problem, or a selected period considered in the full perspective of American culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 377. African-American Religion - AH, D1
3 Units
Term Typically Offered: Fall Only
Description: This course explores various religious beliefs, practices, experiences, traditions and institutions of African descended people in the United States. Students will be introduced to a range of African-American religious traditions and a variety of perspectives within African-American religious thought. These traditions and their respective beliefs and practices will be situated within their proper historical, social and cultural contexts.
Note: Cross-listed with PAS 317.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 378. The African-American Experience
3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An examination of the African-American experience as depicted in literary and artistic genres.
Note: Cross-listed with PAS 378.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 380. Culture of Iberia-Latin America
3 Units
Prerequisite(s): Sophomore standing.
Description: Interdisciplinary study of Iberia-Latin America, with emphasis on the distinctive characteristics of the arts, literature, and religious and philosophical thought in their cultural context.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 381. Russian Culture
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Sophomore standing.
Description: Cultural trends in Russia through music, fine arts, literature, theatre and film.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 382. Native American Cultures
3 Units
Prerequisite(s): Sophomore standing.
Description: Interdisciplinary study of native cultures of the Americas with an emphasis on art, dance, literature (oral and written) and religion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 383. The Mediterranean and Culture 3 Units
Description: Examines how cultural practices in the Mediterranean area vary and interact. Considers different meanings assigned to "the Mediterranean" according to place and period.
Note: Cross-listed with ANTH 383.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 384. Cultures of Modern Africa 3 Units
Prerequisite(s): Sophomore standing.
Description: Interdisciplinary study of representative modern African cultures, since the fifteenth century, especially under European colonialism and since independence, with emphasis on the distinctive characteristics of the arts, literature (oral and written), and religious and philosophical thought in their cultural context.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 387. The Holocaust, Genocide, and Global Imagination - D2, SBH 3 Units
Term Typically Offered: Occasionally Offered
Description: A study of the historical events, with analysis and evaluation of the impact of the Holocaust and other modern global genocides on humanistic thought and imagination.
Note: Cross-listed with HIST 387.
Note: Credit may not be received for this course and HIST 387.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 395. Environment, Urbanism, and Architecture 3 Units
Term Typically Offered: Fall Odd Years
Prerequisite(s): Sophomore Standing.
Description: A study of the visual shaping of the environment, the history of cities and architecture, within changing cultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 400. Honors Seminar in Humanities 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Divisional Honors Program.
Description: Seminar devoted to the intensive investigation of a major substantive or theoretical area within the Humanities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 500. Honors Thesis in Humanities - WR 3 Units
Prerequisite(s): Junior standing; admission to Divisional Honors Program.
Description: An intensive examination of a topical area in Humanities undertaken with a designated faculty director.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 501. Independent Study 1-3 Units
Prerequisite(s): Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department; at least 18 hours credit in the department; consent of Division chair.
Description: Individualized study under the supervision of a sponsoring faculty member that is related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 502. Independent Study 1-3 Units
Prerequisite(s): Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 hours credit in the department.
Description: Consent of Division chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 505. Humanities Study Abroad 3-6 Units
Prerequisite(s): Participation in the University of Louisville study abroad program or a program approved by the Humanities Division.
Description: Credit awarded upon demonstration of successful completion of program, including a paper or project and an oral or written examination administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 509. Interdisciplinary Approaches: Arts and Humanities - CUE, WR 3 Units
Prerequisite(s): Junior standing; majors only.
Description: Methods and theories in interdisciplinary thinking and research, emphasizing (1) the interrelationships of the disciplines, (2) the importance of synthesizing art, theatre, literature, music, philosophy, and religion in a cultural context, and (3) the critical examination of issues arising from fields outside the Humanities that have significant impact on and synergy with the Humanities.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HUM 509 and HUM 609.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 510. Methods and Theories in the Study of Religion - CUE, WR 3 Units
Prerequisite(s): Completion of 90 hours and permission of instructor.
Description: A survey of major theories and methodologies in the academic study of religion from a historical perspective.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HUM 510 and HUM 610.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 511. Topics in the Interpretation of Sacred Texts 3 Units
Prerequisite(s): Junior standing.
Description: Study in depth of sacred texts and commentaries selected from the major religions of the world: Hebrew Bible, New Testament, Qur’an, Vedas, Bhagavad Gita, and Buddhist sutras.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 512. Topics in Contemporary Religious Thought 3 Units
Prerequisite(s): Junior standing.
Description: In-depth study of selected contemporary writers from major world religions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 513. Topics in Comparative Religions 3 Units
Prerequisite(s): Junior standing.
Description: A critical study of similarities and differences in ideas and attitudes toward significant themes in world religions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 514. Perspectives on Religious Coexistence and Conflict 3 Units
Prerequisite(s): Junior standing.
Description: Through interdisciplinatory methodological and theoretical frames of analysis, exemplary cases of global, historical interreligious encounters will be explored.
Note: Credit may not be earned for both HUM 514 and HUM 614.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 515. Topics in Gender and the Humanities 3 Units
Prerequisite(s): Junior Standing.
Description: Specialized topics in Gender and the Humanities will be explored through advanced, interdisciplinary methodological and/or theoretical frames.
Note: Credit may not be earned for both HUM 515 and HUM 615.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 516. Topics in the Histories of Religion 3 Units
Prerequisite(s): Junior Standing.
Description: Advanced study of selected histories of individual religious traditions and/or interaction between religious traditions in different historical contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 518. Arabs & Jews in Israeli & Palestinian Literature & Cinema 3 Units
Prerequisite(s): ENGL 101 and ENGL 102.
Description: Students explore the nexus of Israeli and Palestinian literature and history from the 1948 war to the present, exploring issues of empathy with the other, the commemoration of personal and collective trauma and dispossession, and the construction of peoplehood and national identity.
Note: Cross-listed with HUM 618.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 524. Special Topics in Film Study 3 Units
Prerequisite(s): Junior standing.
Description: An in-depth study on a specific topic to be announced in the Schedule of Courses.
Note: May be repeated up to three times for different topics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 550. Internship in Arts and Humanities 3 Units
Prerequisite(s): Consent of chair of Humanities or undergraduate advisor.
Description: An individually arranged internship that combines volunteer work experience with an Arts or Humanities organization or agency with a related academic project.
Note: Course cannot be repeated for academic credit toward the degree.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 555. Independent Reading 2-3 Units
Prerequisite(s): Honors standing, junior standing, consent of division chair.
Description: Readings in cultural history; oral and written reports.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 561. Selected Topics 3 Units
Prerequisite(s): Junior standing.
Description: Content to be indicated in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 562. Selected Topics 3 Units
Prerequisite(s): Junior standing.
Description: Content to be indicated in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 581. Dante
Prerequisite(s): Junior standing.
Description: Study of Dante's life and major works, and the social, political, and cultural milieu which affected his literary career. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 591. Perspectives on Ancient Culture - WR  3 Units
Prerequisite(s): Completion of 75 undergraduate hours.
Description: Interdisciplinary study of fundamental aspects of ancient culture by means of individual readings and critical writing projects.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HUM 592. Perspectives on Medieval Culture - WR  3 Units
Prerequisite(s): Completion of 75 undergraduate hours.
Description: Interdisciplinary study of fundamental aspects of medieval culture by means of individual readings and critical writing projects.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HUM 593. Perspectives on Early Modern Culture - WR  3 Units
Prerequisite(s): Completion of 75 undergraduate hours.
Description: Interdisciplinary study of fundamental aspects of early modern culture (seventeenth and eighteenth centuries) by means of individual readings and critical writing projects.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HUM 594. Perspectives on Modern Culture - WR  3 Units
Prerequisite(s): Completion of 75 undergraduate hours.
Description: Interdisciplinary study of fundamental aspects of culture in the nineteenth and twentieth centuries by means of individual readings and critical writing projects.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HUM 595. Principles of Cultural History - WR  3 Units
Prerequisite(s): Completion of 75 undergraduate hours.
Description: The study of major systematic views of the development of Western culture.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be received for this course and HIST 595.

HUM 596. Selected Perspectives in Humanities - WR  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Completion of 75 undergraduate hours.
Description: Interdisciplinary topics to be announced in the Schedule of Courses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Industrial Engineering (IE)

IE 240. Fundamentals of Industrial Engineering  3 Units
Term Typically Offered: Fall Only
Description: An introduction to the analysis and design of industrial systems; emphasis upon appropriate analytical and computer-based techniques and their applications to industrial systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 250. Data Management and Spreadsheet Modelings for IE  3 Units
Term Typically Offered: Fall Only
Description: This course will develop analytical and modeling skills using Excel spreadsheets. Students will develop skills needed to analyze data in Excel and to build mathematical models in Excel. The course is divided into two parts. The first part is devoted to data analysis and management. Students will learn a comprehensive set of spreadsheet skills and tools, including how to design, build, test, and use a spreadsheet for data analysis. The second part of the course provides an introduction to the concepts and methods of Decision Science, which involves the application of mathematical modeling and analysis to management problems, with a focus on optimization models. It also provides a foundation in modeling with spreadsheets. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 288. Industrial Engineering Cooperative Education Seminar  0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Eligibility for admission to the IE Department.
Description: Discussion of the policies and procedures for cooperative education and instruction in self-directed job search techniques, including interviewing skills, resume preparation, and guidelines for the co-op report. This is a prerequisite for each cooperative education term. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 289. Industrial Engineering Cooperative Education I  1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 288, admission to academic department, and good standing within Speed School.
Description: Full-time technical work experience related to the student's academic program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
IE 320. Manufacturing Processes
Term Typically Offered: Spring Only
Prerequisite(s): CHE 253.
Description: Principles of materials processing used in manufacturing; casting, forming, machining, welding, and related techniques such as numerical and computer control. Laboratory includes plant visits.

IE 360. Probability and Statistics for Engineers
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 101.
Description: Engineering applications using probability, random variables, distribution functions, confidence intervals, estimation and hypothesis testing.

IE 365. Industrial Engineering Cooperative Education I
Term Typically Offered: Fall Only
Prerequisite(s): IE 240.
Description: Full-time technical work experience related to the student's academic program.

IE 370. Engineering Economic Analysis
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 101.
Description: Methods for economic evaluation of engineering projects including, time value of money, equivalence, cost estimation, selection of alternatives, effects of depreciation, taxes and inflation, replacement analysis, sensitivity analysis, capital budgeting.

IE 380. Work Design
Term Typically Offered: Fall Only
Description: Work measurement as a basis for the industrial engineering profession. Engineering principles of work measurement, analysis and design. Methods engineering and time study. Predetermined motion time systems. Work sampling and standards. Computerized work measurement systems: ADAM and MOST. Job design and standardization of production.

IE 389. Industrial Engineering Cooperative Education II
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 289.
Description: Full-time work experience related to the student's academic program.

IE 393. Independent Study in Industrial Engineering
Term Typically Offered: Fall, Spring, Summer
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 400. Quality Control
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 360 and IE 240.
Description: Developing an effective total quality control (TQC) system: integrating the quality development, maintenance, and improvement efforts of an organization; control charts, process capability, value engineering, product liability prevention, and computer control.

IE 409. Industrial Engineering Cooperative Education III
Term Typically Offered: Fall Only
Grading Basis: Pass/Fail
Prerequisite(s): IE 288 and IE 389.
Description: Full-time technical work experience related to the student's academic program.

IE 421. Facility Location and Layout
Term Typically Offered: Fall Only
Prerequisite(s): IE 240.
Description: Design and layout of industrial facilities, facility location, space requirements, flow charts, relationship diagrams, material handling, quantitative layout techniques, production line balancing, and computer programs for layout planning.

IE 425. Production and Inventory Control
Term Typically Offered: Spring Only
Prerequisite(s): IE 360 and IE 240.
Description: Topics include the context of inventory management and production planning decisions, economic order quantities, heuristics and models for probabilistic and time-varying demand patterns, coordinated replenishment systems, and aggregate planning.

IE 429. Production and Inventory Control
Term Typically Offered: Spring Only
Prerequisite(s): IE 360 and IE 240.
Description: Topics include the context of inventory management and production planning decisions, economic order quantities, heuristics and models for probabilistic and time-varying demand patterns, coordinated replenishment systems, and aggregate planning.

IE 430. Quality Control
Term Typically Offered: Spring Only
Prerequisite(s): IE 360 and IE 240.
Description: Developing an effective total quality control (TQC) system: integrating the quality development, maintenance, and improvement efforts of an organization; control charts, process capability, value engineering, product liability prevention, and computer control.

IE 489. Industrial Engineering Cooperative Education III
Term Typically Offered: Fall Only
Grading Basis: Pass/Fail
Prerequisite(s): IE 288 and IE 389.
Description: Full-time technical work experience related to the student's academic program.

IE 499. IE Capstone Design - CUE
Term Typically Offered: Spring Only
Prerequisite(s): IE 380, IE 421, IE 425, and IE 430.
Description: This course requires the solution of a real-world design problem in industrial engineering. It uses the design and analysis tools learned in previous coursework and emphasizes teamwork, documentation and presentation skills.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
IE 515. Operations Research Methods
Term Typically Offered: Fall Only
Prerequisite(s): ENGR 330.
Description: Formulation and solution of basic models in operations research. Topics to be covered include applications of linear, integer and nonlinear programming; transportation and assignment problems, and network flows models.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 516. Stochastic Operations Research
Term Typically Offered: Spring Only
Prerequisite(s): IE 360 or equivalent.
Description: A selection of the probabilistic topics of operations research are included: queuing, renewal and Markov processes, simulation, decision analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 525. Project Management
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission in IE or EM program or instructor permission.
Description: Use of CPM, PERT, precedence diagramming, resource allocation heuristics, and other techniques for planning, managing, and controlling engineering projects involving research and development, production, maintenance, and construction. Computer procedures and codes for analyzing complex project networks will be covered.
Note: Cross-listed with EM 525.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 540. Robots and Manufacturing Automation
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 360.
Description: Computer aided manufacturing; robot programming; implementation, application, and computer control; research trends; social impacts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 541. Simulation
Term Typically Offered: Fall Only
Prerequisite(s): IE 240, IE 250, and IE 360.
Description: The use of discrete event simulation to analyze systems. Topics include Monte Carlo techniques, sampling from and identifying stochastic distributions, estimating performance measures from simulation outputs, validation methods, and SIMIO simulation language.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 561. Developing Decision Support Systems with Excel
Term Typically Offered: Fall, Spring
Prerequisite(s): IE 250.
Description: This course teaches the fundamentals of computer programming using Excel’s macro language, Visual Basic for Applications (VBA), as the language of instruction. The course starts by teaching students to simplify and extend code generated by Excel’s macro recorder and then builds on that base toward developing applications that analyze information and enhance decision making. This course also provides an introduction to the concepts and methods of Decision Science, which involves the application of mathematical modeling and analysis to management problems. It also provides a foundation for modeling with VBA in Excel.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 563. Experimental Design in Engineering
Term Typically Offered: Spring, Summer
Prerequisite(s): IE 360.
Description: Design of engineering experiments and projects using theory of least squares, analysis of variance, randomized blocks, factorial experiments, nested designs, split plot designs and logistic regression techniques. Covers a combination of analysis by hand and using Minitab statistical software.
Note: Cross-listed with CECS 563.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 564. Introduction to Human Factors Engineering and Ergonomics
Term Typically Offered: Fall Only
Description: The main goal of this course is to introduce students to the study of human cognitive and physical abilities and limitations, and application of that knowledge to engineering design. This course will demonstrate how the application of the human factors and ergonomics principles can improve the design of systems involving the interaction of humans with tools, technology, and the work environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 581. Advanced Topics in Human Factors Engineering
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 580.
Description: The main goal of this course is to learn and apply advanced methods in human factors engineering, as well as newer models, theories, and frameworks related to the field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 590. Special Topics in Industrial Engineering
Term Typically Offered: Fall, Spring, Summer
Description: A theoretical and/or experimental investigation of an industrial engineering design topic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Interpreter Training (ITP)

ITP 104. Special Education Introduction 3 Units
Description: Complete overview of major categories of exceptionalities and special education. Observations of special education services. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITP 115. Heritage & Culture of the Deaf - D1, SB 3 Units
Term Typically Offered: Fall Only
Description: This course provides students with an overview of the psychological, sociological, and cultural impacts of deafness upon children and adults. Learners will explore how deafness can affect an individual's linguistic and cognitive development, psychological-emotional growth, access to communication, and life opportunities. The course also examines historical relations between Deaf and hearing people and compares Deaf culture to that of the hearing community.
Note: This course is required for admission into the American Sign Language Interpreting Studies BS Program.

ITP 201. Application of Fingerspelling and Number Systems 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ASL 201 with a minimum grade of C or permission of instructor.
Description: The course will focus on aspects of receptive and expressive fingerspelling usage, including lexicalized fingerspelling and various numbering systems within ASL. Clinical hours required.
Note: Formerly ITP 315.

ITP 215. Professional Ethics and Issues in Interpreting 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ASL 201 and ITP 115, both with a minimum grade of C or permission of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITP 220. Processing Skills for Interpreters 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ASL 201 or ASL 205.
Description: This course uses a process-oriented approach for applying the essential cognitive strategies to interpretation. These strategies include readily retrieving lexical items, organizing and manipulating visual images, analyzing message for meaning, and self-monitoring for message accuracy. The course serves as a transition from language learning to simultaneous manipulation of ASL and English for the purpose of interpreting and transliterating. Clinical hours required.
Note: Admittance to the ASLIS major depends on a passing score on the screening exam at the end of this course.

ITP 225. Introduction to Interpreting 3 Units
Term Typically Offered: Spring Only
Description: The course is designed to offer a framework for understanding the field of interpreting, including: the role of the interpreter in various settings, the interpreting process, physical factors, language variations, and the Code of Professional Conduct, as well as current trends in the interpreting field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITP 230. Language and Interpreting Studies 3 Units
Term Typically Offered: Occasionally Offered
Description: The practical and theoretical applications of interpreting are discussed to develop sign language interpreting skill-sats. Methods for creating interpretations to ASL and to English are demonstrated. Approaches for evaluating interpretations are included. Students will work in small groups and individually to prepare interpretations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITP 301. Multiculturalism and Interpreting 2 Units
Term Typically Offered: Fall Only
Description: Through common settings where interpreters work, the notions of oppression, activism, advocacy, and image will be explored. The focus will be on specific vocabulary and interpreting content and issues related to social justice such as gender, sexual orientation, race, religion, ability, and class.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITP 310. Special Topics in Interpreting 1-3 Units
Prerequisite(s): Permission of instructor.
Description: Presentation of course material of a timely, specialized, or topical nature. Specific course orientation will appear beside title. May be retaken to a maximum of six hours if subject matter is different each time.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITP 320. English to ASL Interpreting I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ASL 202, ITP 115, ITP 215, and ITP 220, all with a minimum grade of C, or permission of instructor; admission in the ITP program.
Description: Development of English to ASL interpreting skills progressing from consecutive to simultaneous interpreting in a variety of settings. Clinical hours required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### ITP 325. ASL to English Interpreting I
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ASL 202, ITP 115, ITP 215, and ITP 220, all with a minimum grade of C or permission of instructor; admission in the ITP program.  
**Description:** Development of ASL to English interpreting/transliterating skills progressing from consecutive to simultaneous interpreting/transliterating in a variety of settings. Clinical hours required.  
**Note:** Formerly ITP 230.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<tr>
<th>Term</th>
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<td>Fall Only</td>
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### ITP 337. Education of the Deaf and Hard of Hearing
**Term Typically Offered:** Spring Only  
**Description:** Study of personality, intellectual, and emotional development of deaf and hard of hearing people. Emphasis on social maturity, motor functioning, multiple disabilities and the significant history of educational programs at all levels.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<tr>
<th>Term</th>
<th>Units</th>
<th>Notes</th>
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<tr>
<td>Spring Only</td>
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### ITP 350. Historical Perspectives on the Deaf Community - WR
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ENGL 102.  
**Description:** The course primarily examines the deaf community and its historical events. The course is organized to focus on the historical, sociopolitical, sociolinguistic and psychosocial forces that influence deaf people's experience in both the United States and other countries.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>Fall Only</td>
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</table>

### ITP 370. Interpreting in Specialized Settings I
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** Admission to ASLIS major and good standing in the program.  
**Description:** This course provides an overview of a variety of interpreted settings such as: medical, educational, community-based, VRS, platform, etc. Students will identify features that occur with in various settings utilizing different theoretical frameworks, including the 11Ps and Demand-Control Schema. In addition to setting analysis and discussion of key features, students will learn and apply specialized vocabulary and concepts for each setting through interpreted assignments and role-playing situations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

<table>
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<tr>
<td>Spring Only</td>
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</table>

### ITP 390. Linguistics and American Sign Language I
**Term Typically Offered:** Spring Only  
**Corequisite(s):** ASL 201 or ASL 205.  
**Description:** Overview of linguistics: phonology; morphology and language change in a variety of languages and American Sign Language. Analysis of ASL and spoken languages. Clinical hours required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<tr>
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<tbody>
<tr>
<td>Spring Only</td>
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</table>

### ITP 420. English to ASL Interpreting II
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** ASL 302, ITP 320, and ITP 325, all with a minimum grade of C or permission of instructor; admission to ITP program.  
**Description:** Continued development of ASL to English interpreting/transliterating skills in a variety of settings. Clinical hours required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<tr>
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<tr>
<td>Spring Only</td>
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</table>

### ITP 425. ASL to English Interpreting II
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ASL 302, ITP 320, and ITP 325, all with a minimum grade of C or permission of instructor; admission to ITP program.  
**Description:** Continued development of ASL to English interpreting/transliterating skills in a variety of settings. Clinical hours required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<tr>
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<tr>
<td>Fall Only</td>
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</table>

### ITP 430. Interpreting in Specialized Settings II
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ITP 320 or equivalent; admission to ASLIS major and good standing in the program.  
**Description:** This course will provide interpreting majors with the development of ASL skills to increase ASL/English interpreting proficiency in a variety of settings. Curriculum also focuses on the development of skills needed to identify or clarify issues regarding interpreters’ decisions; to review various decision-making processes; to map roles and responsibilities; and to resolve conflicts or strategize solutions. Clinical hours required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<thead>
<tr>
<th>Term</th>
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### ITP 440. Advanced Simultaneous Interpretation
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ITP 420; admission to ASLIS major and good standing in the program.  
**Description:** ITP 440 is designed to provide advanced strategies to deal with interpretation of English to ASL. Strategies include: interactive discourse features of conversations, explanation, interviews, discussions, and other types of dialogue genres. Course topics include effort in interpretation, restructuring, coping skills, simultaneity, and repair strategies.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

<table>
<thead>
<tr>
<th>Term</th>
<th>Units</th>
<th>Notes</th>
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<tr>
<td>Occasionally</td>
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</table>

### ITP 445. Practicum in Interpreting I
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** ITP 490; admission to ASLIS major and good standing in the program.  
**Description:** Observation and interpreting experience under the supervision of a mentor(s) in a variety of settings. Clinical hours required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

<table>
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<tr>
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<tbody>
<tr>
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</table>
ITAL 490. Linguistics and ASL II 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ITP 390; admission to ASLIS major and good standing in the program.
Description: Overview of syntax, discourse, and sociolinguistics. Analysis of American Sign Language and spoken English. Clinical hours required.

ITAL 495. Practicum in Interpreting II - CUE 10 Units
Term Typically Offered: Spring Only
Prerequisite(s): ITP 490; admission to ASLIS major and good standing in program.
Description: The Practicum course is designed to expose students to their professional role through internship in the field. This practicum experience provides students the opportunity to apply and integrate knowledge acquired through coursework. In clarifying and broadening career goals, the practicum assists students in discovering, developing, and refining necessary competencies and skills for their proposed career objectives.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Italian (ITAL)

ITAL 121. Basic Italian I 4 Units
Term Typically Offered: Fall, Spring
Description: For beginners. Basic grammar with practice in hearing, speaking, reading, and writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 122. Basic Italian II 4 Units
Term Typically Offered: Spring Only
Description: For beginners. Basic grammar with practice in hearing, speaking, reading, and writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 123. Basic Italian III 4 Units
Term Typically Offered: Fall Only
Prerequisite(s): ITAL 122.
Description: Review of grammar. Practice of the language through oral and written exercises. Readings from representative literature or from cultural selections.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 321. Italian Conversation 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ITAL 202, ITAL 123, or equivalent.
Description: Intensive practice in oral Italian; use of background information on Italy as a point of departure; compositions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 322. Italian Composition 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ITAL 202 or ITAL 123.
Description: Grammatic and idiomatic review; conversation based on cultural material; compositions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 325. Literature of the Seventeenth and Eighteenth Centuries 3 Units
Prerequisite(s): ITAL 202, ITAL 123, or equivalent.
Description: Reading of important literary works with textual and cultural elucidation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 326. Literature of the Seventeenth and Eighteenth Centuries 3 Units
Prerequisite(s): ITAL 202, ITAL 123, or equivalent.
Description: Reading of important literary works with textual and cultural elucidation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 331. Italian Culture and Civilization 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ITAL 202, ITAL 123, or equivalent.
Description: An overview of Italian culture and civilization from ancient Rome to the present, with both historical perspective and contemporary considerations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 355. Introduction to the Study of Italian Literature 3 Units
Prerequisite(s): ITAL 202, ITAL 123, or equivalent.
Description: Appreciation of Italian literary genres, with development of reading and writing skills, and acquisition of critical vocabulary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 441. Literature of the Nineteenth and Twentieth Centuries 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ITAL 202, ITAL 123, or equivalent.
Description: Reading of important literary works with textual and cultural elucidation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ITAL 442. Literature of the Nineteenth and Twentieth Centuries 3 Units
**Prerequisite(s):** ITAL 202, ITAL 123, or equivalent.
**Description:** Reading of important literary works with textual and cultural elucidation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 451. Independent Study 1-3 Units
**Prerequisite(s):** Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ITAL 452. Independent Study 1-3 Units
**Prerequisite(s):** Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Japanese Language (JAPN)

JAPN 101. Basic Japanese I 3 Units
**Term Typically Offered:** Fall Only
**Description:** For beginners. Development of four language skills: understanding, speaking, reading and writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 102. Basic Japanese II 3 Units
**Term Typically Offered:** Fall, Spring
**Prerequisite(s):** JAPN 101 or permission of instructor.
**Description:** For beginners. Development of four language skills: understanding, speaking, reading and writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 200. Study Abroad 1-15 Units
**Description:** Participation in a University of Louisville study abroad program or another program with prior approval of the Department. Credit is awarded with proof of successful completion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 201. Intermediate Japanese I 3 Units
**Term Typically Offered:** Fall Only
**Prerequisite(s):** JAPN 102 or permission of instructor.
**Description:** Designed to strengthen language skills of speaking, understanding, reading and writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 202. Intermediate Japanese II 3 Units
**Term Typically Offered:** Spring Only
**Prerequisite(s):** JAPN 201 or permission of instructor.
**Description:** Designed to strengthen language skills of speaking, understanding, reading and writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 300. Study Abroad 1-15 Units
**Description:** Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 301. Advanced Japanese I 3 Units
**Term Typically Offered:** Fall Only
**Prerequisite(s):** JAPN 202 or equivalent, or permission of instructor.
**Description:** Development of speaking, reading, listening and writing skills in Japanese. Intense vocabulary practice. Introduction to Japanese culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 302. Advanced Japanese II 3 Units
**Term Typically Offered:** Spring Only
**Prerequisite(s):** JAPN 301 or equivalent; or permission of instructor.
**Description:** Continued development of speaking, reading, listening and writing skills in Japanese. Intense vocabulary practice. Introduction of Japanese culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 321. Japanese Conversation 3 Units
**Prerequisite(s):** JAPN 202.
**Description:** Focus is on speaking and listening in everyday communication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 322. Japanese Composition 1 3 Units
**Prerequisite(s):** JAPN 321.
**Description:** To increase Japanese language proficiency in writing through activities which would create new ideas, new vocabulary and grammar.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JAPN 323. Japanese Composition II 3 Units
**Prerequisite(s):** JAPN 322.
**Description:** The focus is on writing essays using transition devices and complex sentences with a more advanced level of grammar and idiomatic expressions than Composition 1.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
LAT 302. Intermediate Latin II  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 201 or equivalent.  
**Description:** Expositions and discussions of Latin prose authors and works with special attention given to current scholarship and research.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 501. Special Topics in Classical Latin Prose  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** LAT 402 or consent of instructor.  
**Description:** In-depth translation and analysis of select Classical Latin prose authors and works with special attention given to current scholarship and research.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JPST 310. Introduction to Japanese Culture Through Film  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** The course will examine, through specifically selected films, the elements of Japanese culture and society. Students will be exposed to readings and conversations about Japanese history and geography, past and contemporary cultural and societal mores, individual and collective social roles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 101. Elementary Latin I  
**Term Typically Offered:** Fall Only  
**Description:** The elements of Latin.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 102. Elementary Latin II  
**Term Typically Offered:** Spring Only  
**Description:** The elements of Latin.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 201. Intermediate Latin I  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** LAT 102 or at least two years of high school Latin.  
**Description:** First semester is a review of grammar with readings in Latin prose.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 202. Intermediate Latin II  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 201 or equivalent.  
**Description:** Readings in Virgil's Aeneid.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 301. Selected Readings  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** Survey of classic Latin literature.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 302. Selected Readings II  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** Survey of classic Latin literature.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 401. Readings in Latin Prose  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** Selections from Livy and Tacitus, Sallust and other major Latin prose authors.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 402. Readings in Latin Poetry  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 302 or consent of instructor.  
**Description:** Selections from Vergil, Ovid, Catullus and other major Latin poets.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JA 383. Police Leadership Development  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Consent of department chair.  
**Description:** Overview of issues related to the understanding of organization, administration, management roles, and operation of the modern law enforcement agency. A specific analysis of the law enforcement executive's role in contemporary society.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

JPST 310. Introduction to Japanese Culture Through Film  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** The course will examine, through specifically selected films, the elements of Japanese culture and society. Students will be exposed to readings and conversations about Japanese history and geography, past and contemporary cultural and societal mores, individual and collective social roles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 301. Selected Readings  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** Survey of classic Latin literature.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 302. Selected Readings II  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** Survey of classic Latin literature.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 401. Readings in Latin Prose  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** LAT 202 or consent of instructor.  
**Description:** Selections from Livy and Tacitus, Sallust and other major Latin prose authors.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LAT 402. Readings in Latin Poetry  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** LAT 302 or consent of instructor.  
**Description:** Selections from Vergil, Ovid, Catullus and other major Latin poets.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### Latin American and Latino Studies (LALS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>LAT 502</td>
<td>Special Topics in Latin Poetry</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>LAT 402 or consent of instructor.</td>
<td>In-depth translation and analysis of select Classical Latin poets and poetic works with special attention given to current scholarship and research.</td>
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<tr>
<td>LALS 310.</td>
<td>Introduction to Latin American Studies</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>LAT 551.</td>
<td>Introduction to Medieval Latin</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>LAT 202 or consent of instructor.</td>
<td>An introduction to post-Classical Latin and its literature designed to assist students with a background in Classical Latin make the transition to Medieval Latin studies.</td>
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<tr>
<td>LALS 310.</td>
<td>Introduction to Latin American Studies</td>
<td>3</td>
<td>Fall Only</td>
<td></td>
<td>An interdisciplinary overview of Latin American Studies, including geography and history; social, political and economic systems; literature, culture and global issues.</td>
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<tr>
<td>LALS 311.</td>
<td>Introduction to Latino Studies</td>
<td>3</td>
<td>Spring Only</td>
<td></td>
<td>An interdisciplinary introduction to the experience and condition of Latinos in the United States.</td>
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</tbody>
</table>
| LALS 313. | Panamanian Culture | 3 | D2, SB | Formerly LAS 313. | A course providing students with an overview of Panamanian history and culture and is offered annually through the LALS Study Abroad Program in Panama. | For class offerings for a specific term, refer to the Schedule of Classes.
| LALS 317. | Social Sciences Special Topics in Latino Studies | 3 | | | This course offers a historical overview of the rich cultural diversity of Latinos in the United States. It focuses on issues such as race and ethnicity, politics, social class, economics, and immigration, as well as contributions in the arts and literature. | For class offerings for a specific term, refer to the Schedule of Classes.
| LALS 321. | Social Science Special Topics in Latin American Studies | 3 | | | | |
| LALS 400. | Latin American and Latino Studies Internship | CUE, WR | CUE - This course fulfills the Culminating Experience for seniors that requires them to apply the knowledge gained in coursework on Latin American cultures and issues concerning Latinos in the United States, and utilize Spanish linguistic skills while volunteering a minimum of 80 hours of documented work for an organization that serves the Hispanic community. | | Approved for the Arts and Sciences upper-level requirement in written communication (WR). | For class offerings for a specific term, refer to the Schedule of Classes.
## Liberal Studies (LBST)

### LBST 300. Forms of Interdisciplinary Inquiry  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Junior standing.  
**Description:** Introduction to interdisciplinary and multidisciplinary inquiry, analysis, and methods.  
**Note:** It is recommended that students concurrently enroll in the Liberal Studies section of ENGL 309.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LBST 400. Cooperative Internship in Liberal Studies  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Minimum of 60 credit hours completed, and minimum 2.5 GPA, and completed "Application for Enrollment" form from Liberal Studies program advisor.  
**Description:** An assignment with an institution, agency, or business in a job related to the student's academic program.  
**Note:** See regulations regarding Cooperative Internships in the Arts and Sciences section of the Undergraduate Catalog.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LBST 401. Senior Capstone Project - CUE  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** LBST 300.  
**Description:** Preparation and oral presentation of a summary of the elements of the student's individualized program of study, illustrating how the various fields that formed the student's self-designed interdisciplinary coursework have combined to create a curriculum aimed at the student's own professional goals or specific area of intellectual interest.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LBST 500. Senior Proseminar  
**Prerequisite(s):** LBST 300.  
**Description:** Seniors in the Liberal Studies program present the results of their research and independent study to other majors.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

## Linguistics (LING)

### LING 325. Introduction to Linguistics  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** ENGL 102 or ENGL 105.  
**Description:** Introduction to the basic assumptions, methods and concepts of studying language, focusing on the way language influences human experience and the organization of human behavior. Examines the nature, structure and use of language; may apply as elective in either Social Sciences or Humanities, meeting divisional or out-of-divisional requirements.  
**Note:** Students with credit for LING 518/ENGL 518 may not take this course.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LING 326. Syntax  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** LING 325 or ENGL 325.  
**Description:** Comprehensive introduction to contemporary approaches to describing the syntactic structure of natural language, with emphasis on generative-transformational grammar.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LING 328. Language Acquisition  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** LING 325 (or concurrently) or ENGL 325 (or concurrently).  
**Description:** Drawing upon readings from psychology, anthropology, linguistics, and education, this course will explore aspects of both native and non-native language acquisition and development.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LING 330. Language and Culture - AH, D1  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** An ethnographic perspective to the study of language, investigating how it is used to create and maintain social institutions and rituals, and how it is differentiated across genders and ethnicities.  
**Note:** Cross-listed with ANTH 343 and ENGL 330.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### LING 341. Philosophy of Language - WR  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** LING 325 or equivalent, or consent of instructor.  
**Description:** Philosophical problems concerning language, such as meaning, use reference, private language, and their interrelation. (Humanities)  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** Cross-listed with PHIL 341.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
LING 390. Special Topics in Language 3 Units
Prerequisite(s): LING 325 or equivalent, or consent of instructor.
Description: Investigation of selected areas of the study of language from an interdisciplinary perspective. (Humanities or Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 490. Independent Study 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): LING 325 or equivalent, and 9 additional semester hours in linguistics courses; minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in linguistics courses.
Description: Guided independent study of topic in current linguistic theory or practice. Approval of Independent Study Proposal required before a student is permitted to register for this course. Contact Chair of Humanities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 518. Foundations of Language 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: A survey of contemporary theories of language from structuralism to transformational grammar; and of the relationship of linguistics to literature, psychology, philosophy, reading, and sociology.
Note: Students with credit for LING 325/ENGL 325 may not take this course.
Note: Cross-listed with ENGL 518.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 520. World Englishes 3 Units
Prerequisite(s): (Undergraduates) LING 325 or ENGL 325; Junior standing.
Description: Exploration of the historical, social, and political context of the various varieties of English throughout the world; standardization, pidgins, and creoles will be investigated.
Note: Cross-listed with ENGL 520.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 521. Teaching Techniques in Foreign Languages 3 Units
Prerequisite(s): Current status as a foreign language teacher or consent of instructor.
Description: Teaching methods in foreign languages. Recommended for those teaching or preparing to teach languages.
Note: Cross-listed with M L 521.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 522. Structure of Modern English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Examination of the structure of modern English language; emphasis on grammatical terminology and systems of classification. Students collect and analyze linguistic examples, spoken and written. Recommended for prospective English teachers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 523. History of the English Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, and Junior standing.
Description: The evolution of modern English in terms of social, historical, and linguistic forces which molded it. Emphases include: Indo-European origins, Germanic sources and Latin, French, and Danish influences; structural and lexical change; development of dialect differences; colonial spread of English; role of English in technology; emergence of World Englishes.
Note: Cross-listed with ENGL 523.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 524. Psycholinguistics 3 Units
Prerequisite(s): LING 518, or ENGL 518, or PSYC 324.
Description: Psychological aspects of language and their significance for analysis and understanding of cognitive and social processes.
Note: Cross-listed with PSYC 524.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 525. The Teaching of English as a Second Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; consent of instructor.
Description: A theoretical and practical approach to teaching English to students for whom English is not a native language. The linguistic bases of English, as well as the application of curriculum principles, will be considered.
Note: Cross-listed with ENGL 525.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 526. ESL Portfolio 1 Unit
Term Typically Offered: Occasionally Offered
Prerequisite(s): Completion of all other ESL requirements, and consent of instructor.
Description: Assists teachers in submitting ESL portfolios for review in order to complete continuous assessment plan. Review takes place in the final phase of the course, of which self-assessment and peer assessment are components.
Note: Cross-listed with ENGL 526.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
LING 535. Topics in Applied Linguistics 3 Units
Prerequisite(s): (Undergraduates) LING 325 or ENGL 325; Junior standing.
Description: This course will focus on one aspect of applied linguistics. Topics may include discourse analysis, ESL teaching, language change, gender and language, or other relevant topics in applied linguistics.
Note: May be repeated up to a maximum of three times on different topics.
Note: Cross-listed with ENGL 535.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 570. Language and Social Identity 3 Units
Prerequisite(s): (Undergraduates) LING 325 or ENGL 325; Junior standing.
Description: An introduction to the social systems and language varieties found across societies. Additionally, students will objectively explore both linguistic and social norms.
Note: Cross-listed with ENGL 570.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 590. Special Topics in Linguistics 3 Units
Prerequisite(s): Junior standing.
Description: Intensive investigation of selected topics in current linguistic theory or practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Management (MGMT)

MGMT 101. Introduction to Business 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to the Business Essentials Minor Program.
Description: An introduction to the functional areas of business, including accounting, finance, marketing, operations, competitive strategy, and human resources. The course is designed to help you appreciate the interrelationship of these business functions and, more generally, the role and context of business in society. Other topics include: the economic and legal environment of business, the globalization of markets, workforce diversity, and entrepreneurship.
Note: The course is not open to College of Business students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 200. Elements of Management 1.5 Units
Prerequisite(s): Admission to the Business Essentials Minor Program; CIS 100 or CIS 250; MGMT 101.
Description: Introduction to four basic management functions: Planning, Organizing, Leading, and Controlling. Each of these functions will be discussed in the context of major ethical and environmental forces. At the conclusion of this course you will develop strategies for improving your skills and ability to manage people, projects, and processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 201. Business Statistics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): An ACT score of 25 or higher in mathematics or completion of MATH 111.
Description: Data display techniques, such as frequency distributions and histograms. Descriptive statistics, including measures of center and spread, correlation, and least squares lines. Probability distributions, with emphasis on binomial, Poisson, and normal distributions. Inferential statistics, including confidence interval estimation, tests of significance, and process control charting. Students will learn to do statistical functions using Excel.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 300. Business Communications 3 Units
Prerequisite(s): ENGL 101 and ENGL 102.
Description: Application of communication principles to current business situations. Emphasis on effective business writing and oral communications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 301. Management and Organizational Behavior 3 Units
Term Typically Offered: Fall, Spring, Summer
Corequisite(s): CIS 250 or CIS 305.
Description: Designed to provide students with the basic level of knowledge and skills in management and interpersonal processes necessary for more advanced business study and employment success.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 305. Human Resource Management 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MGMT 301.
Description: The goal of the course is two-fold: to introduce students to the philosophy of the personnel function in business, and to develop understanding concerning application of the basic manpower management functions—employment training and education, labor relations, employee services, wage and salary analysis, and personnel research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 306. Human Resource Management Applications 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BUS 301 and MGMT 305.
Description: This course will cover a broad range of applications associated with human resource management from the perspective of the manager and supervisor. Students will practice and develop skills in interviewing, delivering performance feedback, dealing with personnel issues, and terminating employees.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MGMT 310. Minorities, Managers and the Workplace  3 Units
Prerequisite(s): Sophomore standing.
Description: In this class the complex issues of diversity in the workplace will be considered from the perspective of the employee and the manager in the context of the basic managerial decision areas of the business organization.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 315. Collaboration: Theory and Skills  3 Units
Term Typically Offered: Fall, Spring
Corequisite(s): CIS 250 or CIS 305.
Description: In our increasingly complex and fast-paced world, the things we can accomplish as individuals is decreasing, while the work that requires collaboration is increasing. But collaboration is not easy. In your career, you will need to be able to work through conflict, resolve others’ conflicts, work in teams, work across teams, and even collaborate between organizations. In this course, you will learn theory and develop skills for collaborating across the wide range of circumstances you are likely to encounter in your career.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 321. Office Procedures and Management  3 Units
Prerequisite(s): MGMT 301.
Description: The study of efficient office procedures as well as the relationship of the office function to the business enterprise. Emphasis is placed on the design and management of office services.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 325. Professional Skills for Managers I  2 Units
Grading Basis: Pass/Fail
Prerequisite(s): ACCT 201, ACCT 202; CIS 100 or CIS 250.
Description: Management majors only. To be taken concurrently with MGMT 301. The components of a portfolio of professional skills are identified and integrated into a personal framework for development. Topics include, but are not limited to, career planning, oral and written communications, organizational skills, business etiquette, and time management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 331. Labor Economics  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECON 201 and ECON 202.
Description: An examination of labor problems and their solutions by competitive market forces. Topics in labor economics include the nature of the labor force, its allocation and utilization, the structure and determination of wages, and unemployment.
Note: Cross-listed with ECON 331.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 332. Employment Law  3 Units
Prerequisite(s): MGMT 305.
Description: A study of the legal and social aspects of employment law and the issues giving rise to this field of governmental activity. Emphasis will be placed upon the laws governing human resource management decisions. General areas of employment law to be addressed include: equal employment opportunity law, occupational safety and health, the regulation of union-management relationships, and areas of developing law in the employee rights arena.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 350. Statistical Inference and Forecasting  3 Units
Prerequisite(s): MGMT 201.
Description: A continuation of MGMT 201 including simple and multiple regression and correlation, non-parametric statistics, time series analysis, analysis of variance, and special topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 358. Management Science  3 Units
Prerequisite(s): MGMT 201.
Description: This course is designed to develop a basic understanding of the aims, methodology, and specific tools of operations research, with a strong application orientation in various functional areas.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 360. Managing the Multinational Enterprise  3 Units
Prerequisite(s): MGMT 301.
Description: A study of selected management issues within an international context. Topics include the nature of international business, framework for international transactions, strategies, operational issues, and global negotiations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 397. Co-op in Management  1-3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MGMT 301; university GPA 2.8; Management majors only.
Description: A new workplace experience in an approved Management position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools.
Note: Application to the co-op program and completion of orientation processes should be completed prior to employment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MGMT 398. Co-op in Management II  
Grading Basis: Pass/Fail  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Permission of the College of Business Co-op Office.  
Description: A new or continued workplace experience in an approved Management position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 399. Co-op in Management III  
Grading Basis: Pass/Fail  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Permission of the College of Business Co-op Office.  
Description: A new or continued workplace experience in an approved Management position which offers new learning and/or additional responsibilities that continue the student's progression of learning and opportunity for practical application of classroom theory and tools.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 400. Design of Experiments  
Prerequisite(s): MGMT 350.  
Description: An advanced statistics course, including analysis of variance and experimental design with emphasis on business research. Covers randomized designs, multi-factor designs, Latin squares, and analysis of covariance. Emphasis on interpretation of results.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 401. Operations Management  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ACCT 201; ACCT 202; ECON 201; ECON 202; BSTA 201 or BSTA 301 or equivalent and MGMT 301.  
Corequisite(s): CIS 300 or CIS 305.  
Description: This course presents topics related to the transformation of inputs into goods and/or services such as operations strategy, quality management, supply chain management, and enterprise resource planning. It covers quantitative models to solve various operational problems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 402. Essentials of Organizational Behavior  
Prerequisite(s): MGMT 301.  
Description: A study of individual behavior in organizations. Factors influencing behavior at the individual, group, and organizational levels will be explored.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 403. Total Quality Management  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): MGMT 301.  
Description: An examination of the concepts and techniques of Total Quality Management (TQM) leading to continuous quality improvement of goods and services. Particular emphasis is placed on formulating quality objectives, understanding internal and external consumers, issues of group empowerment, the role of quality councils, the Baldrige Award and problem solving techniques.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 404. Project Management  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): BSTA 201 or BSTA 301 or equivalent.  
Description: This course will describe the use of projects to support business objectives in modern organizations. Topics to be covered include the selection of projects, their initiation, implementation, control and termination. The roles of the project manager and project team members will be covered as well.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 405. Process Measurement and Experimentation  
Prerequisite(s): MGMT 401.  
Description: A study of statistical tools for measuring processes used in manufacturing and service organizations. Topics include quality function deployment, Taguchi experimental design, process mapping, and statistical process control.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 407. Human Resource Development  
Prerequisite(s): MGMT 305.  
Description: The purpose of this course is to analyze employee training and development needs of profit and nonprofit organizations. Problems in assessing skills, developing apprenticeship and training programs, and assessing program effectiveness will be discussed. The design and implementation of training and development programs will be presented.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 415. Simply Business Summer Management Program  
Prerequisite(s): Junior standing, minimum 2.5 GPA.  
Description: Course is designed for non-business majors to provide an understanding of business essentials including accounting, economics, information systems, finance, management, and marketing. Course is not open to business majors or minors. It does not substitute for MBA foundation courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 420. Systems Development Projects  
Description: Systems Development Projects.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MGMT 421. Collective Bargaining 3 Units
Prerequisite(s): MGMT 305.
Description: The primary purpose of this course is to provide the student with an understanding of the theories and practices of negotiating and administering collective bargaining agreements, emphasizing today's major problems and new trends. The course material includes the negotiation process, the subject matter of contracts, grievance procedures, and arbitration case work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 425. Professional Skills for Managers II 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): MGMT 325.
Description: The students' portfolios of professional skills defined in MGMT 325 and developed throughout the management curriculum are assessed to identify personal strengths and weaknesses. Quality of the portfolio is of utmost importance. Any weaknesses which do not meet minimally acceptable levels must be corrected before graduation.
Note: Must be taken in a student's final semester before graduation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 435. Business and Society 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Minimum of 12 semester hours chosen from FIN 301, MGMT 301, MKT 301, CIS 300, CLAW 301, or MGMT 401.
Description: This course investigates the appropriate role for companies in our society: personal vs. corporate values; corporate involvement in urban problems; prejudice and discrimination; rights and responsibilities of the business person.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 440. Small Business Counseling 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): FIN 301; MGMT 301; MKT 301; CIS 300 or CIS 305; CLAW 301; MGMT 401; and Senior standing.
Description: Providing students an opportunity to work with a partner in addressing problems or needs of a small business (up to 150 employees), this course enables students to consult, counsel, and offer recommendations to the business owner. Students select the projects from a list provided and work together with the faculty member to create a course of action for the business to pursue.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 441. Business Strategy and Policy 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): FIN 301; MGMT 301; MKT 301; CIS 300 or CIS 305; CLAW 301; MGMT 401; and Senior standing.
Description: The study of the interdisciplinary nature of upper level management decision-making. Comprehensive cases and/or computer simulations are used to familiarize students with the analysis of industry trends, internal operations, and the external environment under conditions of uncertainty. Domestic and international dimensions of strategy formulation and execution are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 458. Management Decision Making 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MGMT 201.
Description: This course explores a number of theories, approaches and methods of management decision making. Overviews of both quantitative and non-quantitative methods will be provided with emphasis on selected methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 460. Images of Leadership 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MGMT 301.
Description: This course integrates the theories of leadership with the practice of leading high-performing systems. Through exposure to different perspectives of leadership, as well as case studies of several different leaders, students are shown that leaders look and behave differently. There is not simply a single set of behavior patterns that all leaders follow. On the other hand, leadership is shown to be consistent from leader to leader.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 477. Theory of Constraints 3 Units
Prerequisite(s): MGMT 401.
Description: This course presents the Theory of Constraints (TOC) and the TOC thinking processes. The goal of an organization is discussed followed by throughput accounting and the use of the "five focusing steps" to identify and manage constraints to organization performance. Students will also learn the thinking processes, a set of powerful tools they will use to (1) identify core problems that prevent organizational improvement, (2) develop breakthrough solutions to those problems, (3) break down the obstacles to change, (4) cause change to occur in the organization, and (5) achieve buy-in across organizational functions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 490. Special Topics in Management 1-3 Units
Term Typically Offered: Fall, Spring
Description: A variety of contemporary topics in management will be studied. Course content may vary but will not duplicate other course offerings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MGMT 499. Independent Study in Management 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Written proposal must be sponsored by at least one faculty member and approved by the Department Chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 500. Introduction to Administrative and Organizational Behavior 3 Units
Description: Introduction to administrative and organizational behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Marketing (MKT)

MKT 200. Elements of Marketing 1.5 Units
Prerequisite(s): Admission to the Business Essentials minor program; CIS 100 or CIS 250; MGMT 101.
Description: An introduction to the basic elements of marketing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 301. Principles of Marketing 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECON 201 and ECON 202.
Corequisite(s): CIS 250 or CIS 305.
Description: A study of the behavioral, functional, societal, international, and institutional foundations of marketing, as well as the following marketing mix variables: product, price, promotion, and channels of distribution.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 310. Interactive Retailing 3 Units
Prerequisite(s): MKT 301.
Description: An introduction to managerial aspects of storefront and electronic retailing with an emphasis on decision-making processes by both retail managers and consumers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 311. Supply Chain Management 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MKT 301.
Description: To provide an introduction to supply chain management and to develop an understanding about how firms integrate activities through improved processes and relationships to achieve and maintain a competitive edge.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 312. Direct Marketing 3 Units
Prerequisite(s): MKT 301.
Description: This course will cover the fundamentals of retail strategy and management. Topics such as the retail environment, retail market strategy, financial strategy, merchandise management, and store management will be covered. Use of technology in retailing, social responsibility issues, and globalization in the retail industry will be discussed where appropriate. This course will be a useful elective for anyone planning to work in the retail industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 314. Promotion and Brand Management 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MKT 301.
Description: This course provides students with an understanding of the planning, integration, implementation and control of the explicit Promotional Mix and topics in relation to promotion and brand management strategy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 315. Social Media I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MKT 301.
Description: This course focuses on the use of social media in marketing management and will emphasize the strategic applications of these new technologies rather than the individual social media tools. The course adopts a non-traditional format and, as such, incorporates a variety of pedagogical resources. Class lectures will be supplemented by presentations from social media field experts; online conversations with authors; and six in-class real-time case analyses of prominent local organizations. The highly interactive student centered learning approach will incorporate module presentations given by students. The course will be fast-paced, and students will work individually to complete course assignments.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 316. Direct Marketing 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MKT 301.
Description: This course will examine the concepts, strategies, and applications involved in Direct Marketing. Topics include the scope of direct marketing, strategic planning, offer planning and positioning, direct mail, telemarketing, catalogs, and direct response advertising. Marketing applications of concepts will be illustrated through examples and case studies. Social, ethical, and international aspects of direct marketing will be discussed under various topics when relevant.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MKT 349. Business to Business Marketing  
Term Typically Offered: Spring Only  
Prerequisite(s): MKT 301.  
Description: A study of the marketing of goods and services to other organizations. Special attention is devoted to the discovery of industrial market needs and their translation into products and services, and development of the industrial marketing mix and its appropriate management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 350. Consumer Behavior  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MKT 301.  
Description: A study of the factors and principles that govern the behavior and decision-making patterns of consumers in the marketplace. Theories from economics, psychology, social psychology, and cultural anthropology are used to enhance our understanding of the consumer. Includes cross-cultural aspects of behavior relevant to international settings. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 352. Social Media-II  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): MKT 301.  
Description: This course addresses the role of social media in the marketing mix. Students will gain a working knowledge of various social media venues by working with real world organizations, and an understanding of how these venues can be used to achieve marketing and promotional objectives in a for-profit and/or nonprofit organizational environment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 360. Professional Relationship Selling  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MKT 301.  
Description: This course focuses on the knowledge, skills, and processes required for effective professional relationship selling. Topics covered include understanding organizational purchasing, building trust, communicating effectively, and self leadership. Processes for initiating, developing, and expanding customer relationships are also examined. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 370. Global Marketing  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MKT 301.  
Description: Emphasizes the formulation of marketing strategies in light of global threats and opportunities. Examines the importance of economic, cultural, political, and technical factors in the international marketing management process. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 380. Services Marketing  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MKT 301.  
Description: The course focuses on service organizations where the product is not tangible. Topics include understanding and managing the service encounter, service quality, demand balancing, complaint handling, and service recovery. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 385. New Product Development Strategy  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): MKT 301.  
Description: This course deals with new products tools and concepts that are applicable in a variety of settings: consumer goods, business-business goods, services, and high-technology goods. Concentration will be on consumer goods, mainly packaged goods, durables and high-technology goods. Class discussions will cover a wide range of issues such as market definition, idea and concept generation and evaluation, product design and positioning, test marketing and product launch. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 390. Franchising  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): MKT 301.  
Description: This course deals with the important aspects of starting and managing a franchise business either as a Franchisee or as a Franchisor. Specific attention is placed on the evaluation of franchising opportunities; legal aspects of franchising; the development of appropriate strategies for the successful planning, implementation and launching of a new franchised business. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 396. Zero-Credit Internship-Marketing  
Grading Basis: Pass/Fail  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MKT 301.  
Description: Application to the zero-credit internship program and completion of orientation processes should be accomplished prior to employment. Students must be Marketing majors. A new workplace experience in an approved Marketing position which offers progression of learning in a level appropriate opportunity for practical application of classroom theory and tools. This program is available to students who have received the maximum number of co-op credit hours for their major. Note: this course is restricted and requires permission from the Ulmer Career Management Center. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MKT 397. Co-op in Marketing I 1-3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MKT 301; university GPA 2.5; validation through the College of Business Co-op Office; Marketing majors only.
Description: A new workplace experience in an approved Marketing position which offers a progression of learning in a level appropriate opportunity for practical application of classroom theory and tools.
Note: Application to the co-op program and completion of orientation processes should be accomplished prior to employment.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 398. Co-op in Marketing II 1-3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MKT 397; university GPA 2.5; validation through the College of Business Co-op Office.
Description: A new or continued workplace experience in an approved Marketing position which offers new learning and/or additional responsibilities that continue the student’s progression of learning and opportunity for practical application of classroom theory and tools.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 399. Co-op in Marketing III 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Permission of the College of Business Co-op Office.
Description: A new or continued workplace experience in an approved Marketing position which offers new learning and/or additional responsibilities that continue the student’s progression of learning and opportunity for practical application of classroom theory and tools.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 401. Strategic Sales Leadership 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MKT 301.
Description: This course focuses on the development and execution of a strategic sales program. Topics covered include sales strategy development, sales organization design, and sales force deployment. Sales leadership activities for developing, directing, and determining sales force effectiveness and performance are also examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 406. Purchasing and Supply Mgmt 3 Units
Prerequisite(s): MKT 301.
Description: The course focuses on identifying, selecting, and evaluating suppliers to enhance the quality and timely delivery of supplies needed within an organization. Other topics include understanding the nature of demand for goods and services within business markets and the process of building relationships with suppliers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 412. Logistics and Physical Distribution 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MKT 301.
Description: An integrated study of all functional areas of logistics and physical distribution including supply chain management
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 441. Marketing Research 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MKT 301; CIS 300 or CIS 305; Completion of at least 75 hours prior to enrollment; Marketing majors only.
Description: Scope of marketing research, experimentation, research design, questionnaire construction and scaling problems, sampling methods, data collection and analysis, functional research needs and applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 460. Integrative Marketing Strategy - CUE 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MKT 350; MKT 441; FIN 301; MGMT 301; MGMT 401 and CLAW 301 (MGMT 401 and/or CLAW 301 may be taken as prerequisites or concurrently); completion of at least 80 credit hours prior to enrollment.
Description: An integrative capstone course with focus on the use of critical and analytical thinking to develop and apply effective marketing strategies. Course will require knowledge of Management and Financial concepts to be able to discuss and evaluate comprehensive marketing strategies.
Note: MGMT 301, CLAW 301, FIN 301, and MGMT 401 requirements may not apply to students admitted prior to Summer 2011.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 465. Advanced Professional Relationship Selling 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MKT 360.
Description: This course builds on knowledge and skills learned in MKT 360. The course centers on advanced effective communication skills for the sales professional in building and sustaining business relationships.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 490. Special Topics in Marketing 1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MKT 301.
Description: A variety of contemporary topics in marketing will be studied. Course content may vary each semester but will not duplicate other course offerings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MKT 499. Independent Study in Marketing 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MKT 301.
Description: Written proposal must be sponsored by at least one faculty member and approved by the Department Chair. Course details must be worked out between the student and the sponsoring faculty member.
Note: Faculty members and/or Departmental Chair may require additional prerequisites to be satisfied prior to approval of the independent study.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 525. Distribution Management 3 Units
Description: Examines the flow of goods and related information from sources of supply to sources of demand with primary emphasis on inventory management, warehousing, transportation, customer service, and network configuration.
Note: This course does not fulfill credit for MBA.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 527. Logistics Management 3 Units
Prerequisite(s): MKT 525 and ACCT 526.
Description: Examines skills required for effective logistics management including leadership, contracts, and decision-making.
Note: This course does not fulfill credit for MBA.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Math (Pathways beginning Fall 2012) (MAT)

MAT 55. Pre-Algebra 3 Units
Grading Basis: Developmental Course - No Earned Hours
Term Typically Offered: Fall, Spring
Description: This is a basic education course taught by Jefferson Community and Technical College at UofL. Topics include operations on integers, decimals and fractions and an introduction to exponents, square roots, percents, ratios, proportions, prime factorization, basic geometry, algebraic expressions, basic linear equations, and applications.
Note: Placement in MAT 55 is the equivalent to placement in MT 55.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAT 65. Basic Algebra 3 Units
Grading Basis: Developmental Course - No Earned Hours
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MAH 60, MT 55, MAT 55, or placement test recommendation.
Description: This is a basic education course taught by Jefferson Community and Technical College at UofL. Topics include linear equations and inequalities, integer exponents, polynomials, factoring, equations of lines and their graphs, systems of linear equations and applications.
Note: Placement in MAT 65 is equivalent to placement in MT 65.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAT 85. Intermediate Algebra: A Functional Approach 3 Units
Grading Basis: Developmental Course - No Earned Hours
Term Typically Offered: Occasionally Offered
Prerequisite(s): MAH 070, MT 065, MAT 65, or placement test recommendation.
Description: This is a basic education course taught by Jefferson Community and Technical College at UofL. Topics include rational expressions, radical expressions, rational exponents, graphing parabolas, inequalities, equations of lines, functions and applications, with emphasis on solving quadratic, rational, and radical equations.
Note: Placement in MAT 85 is equivalent to placement in MT 80.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Mathematics (MATH)

MATH 105. Quantitative Reasoning - QR 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Appropriate placement score or equivalent coursework.
Description: Use of mathematical modeling to solve practical problems. Applications include management science, social choice, population growth, and personal finance.
Note: Does not count toward mathematics major or minor.
Note: Intended for non-science majors.
Note: Previously offered as "Contemporary Mathematics".
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 107. Finite Mathematics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Appropriate placement score or equivalent coursework.
Description: Systems of linear equations and inequalities, algebra of sets, counting and probability theory, vectors and matrices, and applications.
Note: Does not count toward mathematics major or minor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 109</td>
<td>Elementary Statistics - QR</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Appropriate placement score or equivalent coursework.</td>
<td>Descriptive statistics, normal and binomial distributions, inferential statistics, contingency tables, correlation and regression, computer laboratory.</td>
</tr>
<tr>
<td>MATH 111</td>
<td>College Algebra - QR</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score or equivalent coursework.</td>
<td>Advanced topics in algebraic and rational expressions and factoring; polynomial, rational, exponential, and logarithmic functions; applications.</td>
</tr>
<tr>
<td>MATH 112</td>
<td>Trigonometry</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score or equivalent coursework.</td>
<td>Trigonometric functions through angular and circular definitions. Identities, graphing, inverse trigonometric functions, analytic geometry, applications.</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score.</td>
<td>Advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations and inequalities; functions. Analytic geometry, trigonometry.</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>MATH 205 or ENGR 101.</td>
<td>A first course in differential and integral calculus of single variable functions. Credit will not be granted for both MATH 205 and either MATH 180 or ENGR 101.</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Mathematics for Elementary Education 1</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>MATH 111-MATH 112, or MATH 190, or ENGR 190, or appropriate placement score.</td>
<td>Problem solving and number systems, including numeration systems, integers, rational, and real numbers, and elementary number theory. Recommended only for majors in elementary or middle grades education.</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Mathematics for Elementary Education II</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>MATH 151.</td>
<td>Geometry, patterns, elementary statistics, discrete probability and counting. Recommended only for majors in elementary or middle grades education.</td>
</tr>
<tr>
<td>MATH 180</td>
<td>Elements of Calculus - QR</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score or equivalent coursework.</td>
<td>Differential and integral calculus of polynomial, logarithmic, and exponential functions with applications.</td>
</tr>
<tr>
<td>MATH 190</td>
<td>Precalculus - QR</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score.</td>
<td>Advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations and inequalities; functions. Analytic geometry, trigonometry.</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score.</td>
<td>Advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations and inequalities; functions. Analytic geometry, trigonometry.</td>
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<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>MATH 205 or ENGR 101.</td>
<td>A first course in differential and integral calculus of single variable functions. Credit will not be granted for both MATH 205 and either MATH 180 or ENGR 101.</td>
</tr>
<tr>
<td>MATH 190</td>
<td>Precalculus - QR</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score.</td>
<td>Advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations and inequalities; functions. Analytic geometry, trigonometry.</td>
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<tr>
<td>MATH 205</td>
<td>Calculus I - QR</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Appropriate placement score.</td>
<td>Advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations and inequalities; functions. Analytic geometry, trigonometry.</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus II</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>MATH 205 or ENGR 101.</td>
<td>A first course in differential and integral calculus of single variable functions. Credit will not be granted for both MATH 205 and either MATH 180 or ENGR 101.</td>
</tr>
</tbody>
</table>

Note: Does not count toward mathematics major or minor.

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MATH 301. Calculus III 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): MATH 206 or ENGR 102.
Description: Differential and integral calculus of functions of several variables, vector analysis, solid analytic geometry, introduction to topics in differential equations.
Note: Credit will not be granted for both MATH 301 and ENGR 201.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 311. Introduction to Higher Math 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 205 or ENGR 101.
Description: Introduction to abstract mathematics with particular attention to developing proof-reading and proof-writing skills. The basics of set theory, functions, relations, number systems, countability, sequences and their convergence, and the complex plane.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 325. Introduction to Linear Algebra 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 180 or MATH 205 or ENGR 101.
Description: Systems of equations, matrix algebra, linear independence, n-dimensional vector spaces, linear transformations, eigenvalues and eigenvectors.
Note: Credit will not be granted for both MATH 325 and ENGR 330.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 349. Statistics and Probability for Teachers 3 Units
Prerequisite(s): Completion of general education mathematics requirement.
Description: Descriptive statistics, data analysis and collection, probability and expected value, introduction to statistical inference. Intended for prospective elementary and middle school teachers.
Note: Does not count toward major or minor in mathematics.
Note: Students may not receive credit for both this course and any of the following: MATH 109, MGMT 201, SOC 301, PSYC 312, PSYC 316 and PSYC 317, CJ 326.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 350. Geometric Investigations 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Math 112 or MATH 190 or MATH 205 or ENGR 101.
Description: Inductive and deductive investigation of Euclidean geometry, constructions, and transformations. Manipulative, models, and technology used in laboratory setting. Intended for prospective middle school teachers.
Note: Does not count toward major or minor in Mathematics.
Note: Credit will not be given for both MATH 350 and either MATH 550 or MATH 551.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 372. Theory of Interest 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 206 or ENGR 102.
Description: Accumulation function and the special cases of simple and compound interest. Nominal and effective interest and discount rates and the force of interest - constant and varying. Valuation of discrete and continuous streams of payments. Determination of yield rates on investments. Application of interest theory to amortization of lump sums, fixed income securities, depreciation mortgages. Covers the interest theory portion of the Examination 2 of the Society of Actuaries and the Casualty Actuarial Society.
Note: Previously offered as MATH 572 (through fall 2018).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 387. Discrete Mathematics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 205 or ENGR 101; MATH 325.
Description: Topics may include: Pigeon-hole principle, counting techniques, binomial coefficients, generating functions, stirling and catalan numbers, permutations and graphs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 405. Differential Equations 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 206 or ENGR 101; MATH 325.
Description: Methods of solution of common types of ordinary differential equations.
Note: Credit will not be granted for both MATH 405 and ENGR 205.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 407. Numerical Analysis 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MATH 301 and MATH 325; MATH 405 recommended.
Description: Introduction to numerical methods used to approximate equation solutions, functions, integrals, derivatives, and solutions of ordinary differential equations.
Note: Credit will not be granted for both MATH 407 and ENGR 307.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

MATH 430. Practicum in Mathematics Education 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Selected for Math UTA; grade of B or better in MATH 311 & MATH 325; 3.0 GPA in major; 9 hrs completed in Math major at UofL.
Description: For Mathematics Undergraduate Teaching Assistants (UTAs) who have been selected to participate in the NSF-STEP-funded PRIMES project as peer mentors and undergraduate teaching assistants (UTA) in undergraduate Mathematics courses. This practicum course is intended to provide a pedagogical foundation for successfully engaging with students in the classes to which each UTA is assigned.
Note: May be repeated for a maximum total of 3 credit hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).
MATH 451. Problem Solving in Number Systems and Discrete Mathematics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 151 and MATH 180.
Description: Exploration of problem solving techniques and their application to problems in number systems and discrete mathematics. Intended for prospective middle school teachers.
Note: Does not count toward major or minor in mathematics.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 491. Independent Study 1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
Description: Opportunity for students to explore, with the guidance of faculty, one or more topics in Mathematics that are not covered under the regularly offered curriculum.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 493. Cooperative Internship in Mathematics 1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): 15 hours of Mathematics (MATH 205 and above); approval of department chair; and Junior standing.
Description: An individually-arranged course combining work experience with a related academic project.
Note: BS students may apply a maximum of 3 hours in applications area requirement.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 499. Senior Honors Thesis - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing and faculty consent.
Description: Independent investigation of a topic in mathematics, undertaken by a student with faculty supervision, culminating in a paper submitted for Honors.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 501. Introduction to Analysis I - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 301, MATH 311 and MATH 325.
Description: Foundations of the real number system, sequences and series, topology of the line, continuity, differentiation of functions of one variable.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 502. Introduction to Analysis II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 501.
Description: Riemann integration on the line, sequences and series of functions, uniform convergence, metric spaces.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 505. Introduction to Partial Differential Equations 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): MATH 301 and MATH 405.
Description: Techniques for solving standard heat, wave, and potential equations, including discussion of Fourier analysis techniques.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 507. Fourier Analysis 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 301 and MATH 405.
Description: Introduction to Fourier series and transforms.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 511. Complex Analysis I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MATH 301 or ENGR 201; MATH 311; MATH 325 or ENGR 330.
Description: Geometry of the complex plane, analytic and meromorphic functions, linear fractional transformations, Cauchy's Theorem and the Residue Theorem. Emphasizes computational aspects of the course topics.
For class offerings for a specific term, refer to the Schedule of Classes.

MATH 512. Complex Analysis II 3 Units
Prerequisite(s): MATH 511.
Description: A continuation of MATH 511, including deeper properties of analytic, meromorphic, harmonic functions and conformal mappings. Emphasizes theoretical aspects of the course topics.
For class offerings for a specific term, refer to the Schedule of Classes.
MATH 520. Theory of Numbers 3 Units
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: A study of the integers and their divisibility properties. Particular emphasis on the theory of congruencies, partitions, prime numbers, Diophantine analysis and quadratic residues.
Note: Credit may be applied toward the MAT but not toward any other graduate degree in mathematics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 521. Modern Algebra I - CUE 3 Units
Prerequisite(s): MATH 206 or ENGR 102; and MATH 311; and MATH 325; or consent of instructor.
Description: An introduction to the theory of groups, rings, integral domains, and fields.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 522. Modern Algebra II 3 Units
Prerequisite(s): MATH 521.
Description: Continuation in greater depth of topics introduced in MATH 521; introduction to theory of ideals, field extensions, and abstract vector spaces.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 535. Modeling I 3 Units
Prerequisite(s): MATH 325 or MATH 405 or equivalent.
Description: Introduction to mathematical modeling of discrete and continuous dynamical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 536. Modeling II 3 Units
Prerequisite(s): MATH 535.
Description: Advanced mathematical modeling of discrete and continuous dynamical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 545. Introduction to Fractal Geometry 3 Units
Prerequisite(s): MATH 301 and MATH 325; MATH 501 recommended.
Description: Recursively defined sets and self-similarity; metric spaces and iterated function systems; topological, fractal, and Hausdorff dimensions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 550. Advanced Euclidean Geometry 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): A year of high school geometry, MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Theory of Euclidean geometry contrasted with non-Euclidean from both the axiomatic and algebraic approach. Of special value to secondary teachers.
Note: Credit may be applied toward the MAT but not toward any other graduate degree in mathematics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 551. Geometry 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Study of projective spaces, transformations and invariants. Introduction to related geometries, such as affine, elliptic, and hyperbolic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 560. Statistical Data Analysis - WR 3 Units
Prerequisite(s): MATH 205 or ENGR 101.
Description: Descriptive techniques, inferential techniques, simple and multiple linear regression. Frequent use of statistical computer packages. No previous knowledge of the computer required.
Note: Credit may be applied towards the MAT but not toward any other graduate degree in mathematics.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 561. Probability 3 Units
Prerequisite(s): MATH 301.
Description: Probability spaces, probability distributions, moments, moment-generating functions, independence, transformation of variables, sampling distributions, laws of large numbers, central limit theorem, applications.
Note: Credit will not be granted for both MATH 561 and IE 360.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 562. Mathematical Statistics 3 Units
Prerequisite(s): MATH 561.
Description: Random samples and statistics, point estimation, sufficiency and completeness, confidence regions, classical theory of hypothesis testing, linear regression, nonclassical procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MATH 564. Probability Models 3 Units
Prerequisite(s): MATH 561.
Description: Finite probability models, Markov chains, renewal and reliability theory, Brownian motion, stochastic differential equations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 568. Mathematical Models in Molecular Biology 3 Units
Prerequisite(s): MATH 205 or instructor consent.
Note: Cross-listed with BIOC 568.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 570. Foundations of Actuarial Science 3 Units
Prerequisite(s): MATH 561.
Description: Fundamental mathematical tools for quantitatively assessing risk. Application of these tools to problems encountered in actuarial science is emphasized. Covers the material of Examination 1 of the Society of Actuaries and Casualty Actuarial Society.
Note: Credit may not be applied toward a graduate degree in mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 573. Actuarial Models I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MATH 570 and MATH 572.
Description: This course covers the material for the Society of Actuaries Exam MFE, Actuarial Models-Financial Economics (also CAS Exam 3F). The syllabus for Exam MFE develops the student’s knowledge of the theoretical basis of financial models and the application of those models to insurance and other financial risks. A thorough knowledge of calculus, probability and interest theory is assumed. Knowledge of risk management at the level of MATH 570 is assumed. In addition, for Exam MFE/3F, students are assumed to be familiar with derivative securities (introductory material) which are in the syllabus of MATH 572.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 574. Actuarial Models II 3 Units
Prerequisite(s): MATH 573.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 581. Introduction to Graph Theory 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Provides an overview of graph theory. Topics include blocks, trees, connectivity, Hamiltonian and Eulerian graphs; topological problems, matrices and groups.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 587. Discrete Mathematics for MAT students 3 Units
Prerequisite(s): MATH 206 or ENGR 102; MATH 325.
Description: Topics include: Pigeon-hole principle, counting techniques, binomial coefficients, generating functions, stirring and catalan numbers, permutations and graphs.
Note: Does not count towards the mathematics major or minor.
Note: Credit may be applied toward the MAT degree but not towards any other graduate degree in mathematics.
Note: Credit not allowed for both MATH 387 and MATH 587.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 590. History of Mathematics - WR 3 Units
Prerequisite(s): 500-level course in math (except MATH 560).
Description: Mathematical history from Mesopotamia to present. Emphasis on doing mathematics, identifying the growth of mathematical concepts and studying prominent mathematicians.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 591. Selected Topics in Mathematics 1-3 Units
Prerequisite(s): Announced in Schedule of Courses.
Description: An examination of one or more topics in mathematics not usually treated in a regularly offered course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Mechanical Engineering (ME)

ME 206. Mechanics II: Dynamics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 102 and CEE 205.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 251. Thermodynamics I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 102 and PHYS 298.
Description: This course covers: fundamental thermodynamic concepts involving heat and work; obtaining properties for typical working fluids, real and ideal gases; first and second laws of thermodynamics; entropy and irreversible processes; and basic cycles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
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| ME 280      | Structured Programming for Mechanical Engineering                              | 2     | Fall, Spring           | Pass/Fail     | CEECS 121                                 | Description: Software development using structured computer programming. Design and implementation of programs with application to mechanical engineering problems such as numerical solution methods and kinematics. Uses a suitable programming language such as MATLAB.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                 |
| ME 288      | Mechanical Engineering Cooperative Education Seminar                          | 0     | Fall, Spring, Summer   |               | CEE 205                                  | Description: Discussion of the policies and procedures for cooperative education and instruction in self-directed job search techniques, including interviewing skills, resume preparation, and guidelines for the co-op report. This is a prerequisite for each cooperative education term.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                 |
| ME 289      | Mechanical Engineering Cooperative Education I                                | 1     | Fall, Spring, Summer   |               | CEE 205                                  | Description: Full-time technical work experience related to the student's academic program.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 310      | Thermodynamics II                                                             | 3     | Spring, Summer         |               | ME 251                                   | Description: Exergy analysis and second law efficiency. Power and refrigeration cycles. Thermodynamic relations and real gas behavior. Ideal gas mixtures and psychrometrics. Thermochemistry. Chemical equilibrium.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 311      | Fluid Mechanics I                                                             | 3     | Fall, Spring           |               | ME 206 and ME 251                        | Description: Characteristics of fluids. Fluid statics and kinematics. Applications of the Bernoulli equation. Conservative equations in integral and differential form. Dimensional analysis and modeling.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 312      | Fluid Mechanics Laboratory                                                    | 1     | Fall, Spring           |               | ME 311                                   | Description: Experimental measurements of static and dynamic fluid properties. Concepts of laboratory testing. Introduction to technical report writing.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 324      | Mechanics of Materials Laboratory                                            | 1     | Fall, Summer           |               | ME 323                                  | Description: Experimental measurements of mechanical material properties and experimental verification of solid mechanics theory.  
Concepts of laboratory testing. Introduction to technical report writing.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 380      | Computer Aided Design                                                         | 2     | Fall, Spring           |               | ENGR 151 and ME 323                      | Description: Introduction to the engineering design process emphasizing the use of modern computer-based analysis, design and presentation tools for mechanical engineering applications.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 381      | Introduction to Manufacturing                                                 | 2     | Fall, Spring           |               | CEE 205 and ENGR 251                     | Description: Introduction to manufacturing processes, with an emphasis on considerations for mechanical engineering design. Topics covered include casting, machining, forming, assembly, and modern methods for both polymer and metal materials.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 389      | Mechanical Engineering Cooperative Education II                               | 1     | Fall, Spring, Summer   | Pass/Fail     | ME 289                                   | Description: Full-time technical work experience related to the student's academic program.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
| ME 401      | Fluid Mechanics II                                                            | 3     | Fall, Spring           |               | ME 311 and ENGR 205                     | Description: Differential analysis of fluid flow, viscous flow in pipes, flow over immersed bodies, compressible flow and turbomachinery.  
For class offerings for a specific term, refer to the Schedule of Classes.                                                                                           |
ME 414. Mechanical Measurements

Term Typically Offered: Fall, Spring

Prerequisite(s): ENGR 205, ME 312, and ME 324.

Description: General consideration of signals and utilization of instruments to measure physical properties of systems. Review and introduction of useful mathematical concepts such as statistical data analysis. Introduction to digital data acquisition and signal processing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 415. Senior Mechanical Engineering Laboratory

Term Typically Offered: Fall, Spring

Corequisite(s): ME 414.

Description: Experiments in heat transfer, mechanics, acoustics, pumps, electrical circuits, sound dynamics, and HVAC systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 422. Machine Design I

Term Typically Offered: Fall, Spring

Prerequisite(s): ME 323 and CHE 253.

Description: Fundamental concepts related to the design of mechanical components and machines. The engineering design process. Design for strength and reliability. Open-ended design projects are assigned.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 432. Intermediate Mechanics of Materials

Prerequisite(s): ME 323.

Description: Principle of virtual work. Principle of minimum potential energy. Matrix formulation of static and dynamic structural mechanics problems with a strong emphasis on computer applications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 435. System Dynamics

Term Typically Offered: Spring, Summer

Prerequisite(s): ECE 252, ENGR 205 and ME 311.

Description: Modeling of mechanical, fluid, electrical, and mixed systems. Determination of time and frequency domain response of such systems to transient and periodic inputs. Specific applications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 440. Heat Transfer

Term Typically Offered: Fall, Spring

Prerequisite(s): ME 401.

Description: A study of the fundamental laws and applications of heat transfer by conduction, convection, and radiation.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 442. Machine Design II

Term Typically Offered: Fall, Spring

Prerequisite(s): ME 422.

Description: Design and application of machine elements such as springs, rolling element bearings, gearing, and journal bearings. Open-ended design projects are assigned.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 489. Mechanical Engineering Cooperative Education III

Grading Basis: Pass/Fail

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): ME 389.

Description: Full-time technical work experience related to the student's academic program.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 497. Mechanical Engineering Capstone Design Project - CUE

Term Typically Offered: Fall, Spring

Prerequisite(s): ME 442.

Description: Team-oriented design of a mechanism, system or process satisfying a set of open-ended requirements. Written reports and oral presentations are required.

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 510. Thermal Design of Internal Combustion Engines

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): ME 310.

Description: Thermodynamics and fluid mechanics of internal combustion engine design. Combustion stoichiometry, thermochemistry, and properties of working fluids. Ideal and real engine cycles. Fluid flow processes, combustion processes, pollutant formation and control. Engine operating characteristics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 512. Finite Element Methods for Mechanical Design I

Term Typically Offered: Occasionally Offered

Prerequisite(s): ME 422.

Description: Matrix analysis of static and dynamic structural systems and steady-state heat transfer. Computer aided design of trusses, frames, plane stress structures, as well as one- and two-dimensional thermal systems including conduction and convection.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ME 513. Energy Conversion  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 310.  
Description: A study of nuclear and fossil-fueled steam generators, plus internal combustion prime movers and alternate energy sources. A computerized design project will be required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 521. Mechanical Vibrations  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 422.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 523. Intermediate Dynamics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 206 and ME 422.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 526. Vehicle Dynamics and Handling  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 380.  
Description: Design of passenger and commercial vehicles for optimal dynamic performance with a focus on architecture layout, characterization of critical subsystems, and CAE-based kinematic and kinetic modeling.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 530. Mechanical Design of Consumer Appliances  
Term Typically Offered: Fall, Spring, Summer  
Description: Application of classical, computational, and experimental methods and analyses to the design of mechanical systems characteristic of consumer appliances. Topics include component analysis and design, failure mechanisms, and organization with respect to life, reliability, performance, and cost.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 531. Consumer Appliance Energy Systems  
Term Typically Offered: Fall, Spring, Summer  
Description: Analysis and design of energy systems in home appliances. Topics include thermal-fluid process fundamentals, energy transport, storage, use, and conversion, energy system components and materials, and the affect of extreme environments on components and finishes.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 532. Experimental Stress Analysis  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 323, ME 414 and ME 415 or graduate standing in Mechanical Engineering.  
Description: Fundamentals of experimental stress analysis. Brittle coating methods, photoelastic coating and electrical strain gage techniques, strain measurements under static and dynamic loading.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 534. Experimental Vibrations  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 435.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 535. Control System Design  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 435.  
Description: Basic concepts and principles of feedback control systems. Formulation of linear control problems by classical methods. Analysis and synthesis techniques as used in the design of automatic, dynamic control systems. Study of transient and steady state response, use of time and frequency domain concepts. System performance specifications. Design applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 542. Gas Turbines  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 310 and ME 401.  
Description: Theory and design of various types of gas turbine engines used for power and propulsion. Thermodynamic cycle analysis; design basics of turbomachinery, nozzles, diffusers and combustion chambers; engine performance analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ME 544. Design of Fluid Power Systems  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): ME 380 and ME 401.  
Description: Design methodology of hydraulic circuits and fluid power components. Study of rotary/linear actuators, hydrostatic transmissions, temperature control, contamination control, pneumatics, valves, and control components. Applied design projects and laboratory modules are required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ME 555. Introduction to Micro and Nanotechnology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 253 or equivalent; Senior or Graduate standing in an engineering program.
Description: Design, fabrication and application of micro- and nano-electro-mechanical systems (MEMS/NEMS). Scaling laws governing micro-and nanoscale physics. Use of MEMS/NEMS devices in electronics, as sensors, and for medical applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 562. Composite Materials 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 422.
Description: Overview of composite materials, stress/strain analysis of a polymer matrix fiber-reinforced composite ply, classical lamination theory, failure criteria, design approaches, manufacturing methods, and applications for structural polymeric composites.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 556. Advanced Engineering Mathematics I 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 201 and ENGR 205 or equivalent.
Description: Formulation and solution of mathematical models for mechanical engineering problems leading to ordinary and partial differential equations. Transform solution methods and linear algebra concepts, including real and complex-domain eigenvalue problem solutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 566. Advanced Engineering Mathematics II 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 565 or equivalent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 570. Sustainable Energy Systems 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ME 310 and ME 311.
Description: Analysis and design of sustainable energy systems, and exploration of concepts such as carbon capture storage for making fossil energy systems more environmentally acceptable.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 572. Energy Storage Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 440.
Description: Study of the principles and analysis of energy systems. Introduction to energy storage systems and their applications; thermal and mechanical energy storage, storage of organic fuels, hydrogen, and electrochemical energy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 575. Special Topics in Mechanical Engineering 1-4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty consent.
Description: A special topics course in mechanical engineering topics not covered by regularly scheduled courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 580. Air Pollution Control 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 202, ME 310 or equivalent.
Description: Origin and fate of air pollutants, combustion and pollutant formation processes, control of emissions of gaseous and particulate pollutants and design of various pollution control devices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 585. Design and Energy Analysis of Consumer Appliances 4.5 Units
Description: Application of classical, computational, and experimental methods and analysis to the design of mechanical and energy systems. Topics include material impacts on design, structural component design, and design and analysis of thermal fluid, and acoustic systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 588. Independent Study in Mechanical Engineering 1-4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Faculty consent.
Description: A theoretical or experimental investigation of a problem area related to mechanical engineering.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 595. Measurement, Reliability, and Thermal Design of Electromechanical Systems 4.5 Units
Prerequisite(s): ME 585.
Description: Application of classical, computational, and experimental methods and analyses to the design of electromechanical systems. Topics include reliability and failure analysis, measurement and control of electromechanical systems, and analysis and design optimization of thermal systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Military Science (MILS)

MILS 101. Leadership and Adventure I 1 Unit
Term Typically Offered: Fall Only
Description: Introduction to the Army, military skills and leadership skills. Role of the Army and opportunities as an Army officer. Adventure training with rappelling, marksmanship, and land navigation exercises. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 102. Leadership and Adventure II 1 Unit
Term Typically Offered: Spring Only
Description: Introduction to the Army, military skills and leadership skills. Role of the Army and opportunities as an Army officer. Adventure training with rappelling, marksmanship, and land navigation exercises. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 111. Army Physical Fitness I 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): Students must furnish medical clearance statement prior to participation.
Description: Students learn to plan, coordinate, and execute a physical fitness program under the direct supervision of the master fitness trainer. Emphasis is placed on developing and executing a program that adheres to the principles and components of physical fitness. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 112. Army Physical Fitness II 1 Unit
Term Typically Offered: Spring Only
Prerequisite(s): Students must furnish medical clearance statement prior to participation.
Description: Students learn to plan, coordinate, and execute a physical fitness program under the direct supervision of the master fitness trainer. Emphasis is placed on developing and executing a program that adheres to the principles and components of physical fitness. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 201. Intermediate Leadership Skill Development I 2 Units
Term Typically Offered: Fall Only
Prerequisite(s): MILS 101 and MILS 102, or faculty consent.
Description: Introduction to principles and techniques of military leadership and professionalism with continued emphasis on military skill development. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 202. Intermediate Leadership Skill Development II 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): MILS 101 and MILS 102, or faculty consent.
Description: Introduction to principles and techniques of military leadership and professionalism with continued emphasis on military skill development. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 205. Level 1 Modern Army Combatives (MAC) 2 Units
Prerequisite(s): ; All participants must be a Contracted Cadet, currently enrolled and in good standing in the ROTC Program.
Description: Level 1 MAC follows FM 3-25.150 in order to train the use of different levels force in a replicated environment where conflict may change from low intensity to high intensity over a matter of hours. Graduates of the course receive MAC Level 1 Certification which is applicable to all Army units.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 210. Special Topics in Military Science 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Special topics not otherwise covered in the program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 211. Army Physical Fitness III 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): Students must furnish medical clearance statement prior to participation.
Description: Students learn to plan, coordinate, and execute a physical fitness program, under the direct supervision of the master fitness trainer. Emphasis is placed on developing and executing a program that adheres to the principles and components of physical fitness. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 212. Army Physical Fitness IV 1 Unit
Term Typically Offered: Spring Only
Prerequisite(s): Students must furnish medical clearance statement prior to participation.
Description: Students learn to plan, coordinate, and execute a physical fitness program, under the direct supervision of the master fitness trainer. Emphasis is placed on developing and executing a program that adheres to the principles and components of physical fitness. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 301. Leadership and Management 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MILS 101, MILS 102, MILS 201, and MILS 202; or faculty consent.
Description: Principles and techniques of military leadership, to include: military instruction; employment of small unit weapons; and analysis of military professionalism and ethics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 302. Theory and Dynamics of the Military Team 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MILS 301 or faculty consent.
Description: Theory and dynamics of small unit operations to include: land navigation; artillery fire support procedures; small unit tactics and leadership procedures; individual protective measures; and oral communications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MILS 305. SpecialTopics in Military Science  
Term Typically Offered: Occasionally Offered  
Description: Special topics not otherwise covered in the program.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 308. Survey of American Military History  
Term Typically Offered: Fall, Spring  
Description: A critical understanding of the history that has brought our military to this point. An examination of American Military History independent of the political, social, economic and religious factors and focus on the military tenets as outlined by the Combat Studies Institute (CSI) of the U.S. Army.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 311. Army Physical Fitness I  
Term Typically Offered: Fall Only  
Description: Planning, coordination and execution of a physical fitness program, under the direct supervision of a master fitness trainer.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 312. Army Physical Fitness II  
Term Typically Offered: Spring Only  
Description: Planning, coordination, and execution of a physical fitness program under the direct supervision of a master fitness trainer.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 401. Mission Command and the Army Profession  
Term Typically Offered: Fall Only  
Prerequisite(s): MILS 301 and MILS 302.  
Description: Explore and understand how to apply the concepts of Mission Command, the Operations Process, and Unit Training Management in order to prepare and effectively lead units in complex situations of current military operations. Examine how the Army Profession and the Uniform Code of Military Justice enables leaders to build and maintain effective and morally sound teams.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 402. Mission Command and the Company Grade Officer  
Term Typically Offered: Spring Only  
Prerequisite(s): MILS 401.  
Description: Examine the dynamics of leading in complex, ambiguous environments through United Land Operations; Explore the Art of Command, Ethical Decision Making and Sustaining and building Resilient teams. Conduct a Staff Ride analyzing a Civil War Battle.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 405. Special Topics in Military Science  
Term Typically Offered: Fall Only  
Description: Special Topics not otherwise covered in the program.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 410. Independent Study in Military Science and Leadership  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): MILS 301 and MILS 302.  
Description: Students are under guidance and confer with the Professor of Military Science (PMS) on approved topics. A written paper or report is required and will be maintained in the Office of the PMS. In order to be eligible for this course, students must be granted permission from the PMS, have a program GPA of 3.0, or a GPA of 3.5 in the department, and at least 18 semester hours credit in the department.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 411. Army Physical Fitness III  
Term Typically Offered: Fall Only  
Description: Planning, coordination, and execution of a physical fitness program, under the direct supervision of a master fitness trainer.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MILS 412. Army Physical Fitness IV  
Term Typically Offered: Spring Only  
Description: Planning, coordination, and execution of a physical fitness program, under the direct supervision of a master fitness trainer.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Modern Languages (M L)

M L 000. Study Abroad: (Language)  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Participation in the University of Louisville Study Abroad Program and/or programs conducted by the International Center.  
Description: Credit awarded to students who have successfully completed the program. Upon return, the student will be required to demonstrate language proficiency at a level agreed upon by the Department of Classical and Modern Languages prior to departure.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 101. Elementary Language I  
Term Typically Offered: Occasionally Offered  
Description: Study of languages not normally taught in the curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 102. Elementary Language II  
Term Typically Offered: Occasionally Offered  
Description: Study of languages not normally taught in the curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 121. Basic Language Study I  
Term Typically Offered: Occasionally Offered  
Description: Study of languages not normally taught in the curriculum. Basic grammar, with practice in hearing, speaking, reading, and writing.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
M L 122. Basic Language Study II  
**Description:** Study of languages not normally taught in the curriculum. Basic grammar, with practice in hearing, speaking, reading, and writing. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 199. Writing in the Humanities: Classical and Modern Languages  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ENGL 101. 
**Description:** Students learn to assess the support for a claim in various forms of Humanities writing and to research and write about one or more issues in Classical and Modern Languages. 
**Note:** Credit may not be earned for this course and ENGL 102.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 200. Study Abroad  
**Description:** Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 201. Intermediate Language I  
**Description:** Study of languages not normally taught in the curriculum. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 202. Intermediate Language II  
**Description:** Study of languages not normally taught in the curriculum. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 221. Intermediate Language Study  
**Description:** Study of languages not normally taught in the curriculum. 
**Note:** Completion of ML 221 will satisfy the Arts and Sciences language requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 250. Introduction to the French-Speaking World - AH, D2  
**Term Typically Offered:** Fall, Spring  
**Description:** A general introduction, taught in English, to the arts, culture and history of areas throughout the world in which French is the primary language. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 260. Introduction to Hispanic Culture - AH, D2  
**Term Typically Offered:** Fall, Spring  
**Description:** An introduction to Hispanic culture and ethnicity within a global context. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 261. Cultures of Spain - AH, D2  
**Term Typically Offered:** Occasionally Offered  
**Description:** A general introduction, taught in English, to the culture, art and history of Spain. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 270. Chinese Contributions to the World - AH, D2  
**Term Typically Offered:** Occasionally Offered  
**Description:** An introduction to Chinese historical scientific contributions to the world, the reciprocal influences between Chinese and non-Chinese cultures, and Chinese ethnicity and identities within the global context. 
**Note:** Cross-listed with CHST 270 and AST 270.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 271. Chinese Popular Culture - AH, D2  
**Term Typically Offered:** Fall Only  
**Description:** This course is an introduction to modern and contemporary Chinese pop culture and its global significance. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 280. Culture of the German-Speaking World - AH, D2  
**Term Typically Offered:** Fall, Spring  
**Description:** Introduction to the art, music, literature, film and philosophy of the German-speaking world from the Middle Ages to the present. Taught in English. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 300. Study Abroad  
**Description:** Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 301. Reading, Conversation and Composition I  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** M L 202 or M L 221 in appropriate language. 
**Description:** Reading, conversation and composition in languages taught on an occasional basis. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 302. Reading, Conversation and Composition II  
**Prerequisite(s):** M L 301 in appropriate language. 
**Description:** Reading, conversation, and composition in languages taught on an occasional basis. 
**Note:** Readings, papers, lectures, and discussions in the following literature courses are given in English: M L 313, M L 340, M L 341, M L 351, M L 352, M L 353, M L 354, M L 355, M L 356, M L 357, M L 358, M L 361, M L 362, M L 363, M L 364, M L 401, M L 506, M L 551, M L 552, M L 553, and M L 561.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
M L 310. Japanese Culture Through Film - AH, D2
3 Units
Term Typically Offered: Occasionally Offered
Description: The course will examine, through specifically selected films, social, cultural, and political aspects of contemporary Japanese society.
Note: Cross-listed with JPST 310.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 312. Japanese Popular Culture - AH, D2
3 Units
Term Typically Offered: Fall Only
Description: This course is an introduction to modern and contemporary Japanese pop culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 313. Special Topics in Language, Literature, or Culture
3 Units
Term Typically Offered: Occasionally Offered
Description: Critical reading and interpretation of works providing insights into foreign language, literature, or culture. Topics vary.
Note: May be repeated once for credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 341. Special Topics in Classical Literature
3 Units
Term Typically Offered: Occasionally Offered
Description: Concentration on selected genres, such as epic, pastoral and didactic poetry, drama, historiography, rhetoric. Topics will be announced in schedule of courses.
Note: May be repeated once for credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 342. Grims' Fairy Tales - WR
3 Units
Term Typically Offered: Occasionally Offered
Description: An introduction to the literary fairy tales of the brothers Grimm.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 343. Weimar Culture - WR
3 Units
Description: An introduction to the social and political life, literature, film, and fine arts of the German-speaking world from 1918 to 1933.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 350. The Literary Fairy Tale - AH
3 Units
Term Typically Offered: Fall, Spring
Description: An investigation of the literary fairy tale from the Renaissance to the twentieth century.
Note: Cross-listed with HUM 350.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 351. French Literature: Special Topics - WR
3 Units
Description: Reading and discussion of selected works from the Middle Ages to the present.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 352. Topics in German Literature - WR
3 Units
Term Typically Offered: Occasionally Offered
Description: Critical reading and interpretation of selected works on various themes.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: May be repeated under different subtitle, to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 353. Russian Literature of the Nineteenth Century - WR
3 Units
Term Typically Offered: Occasionally Offered
Description: Reading and discussion of important aspects of Russian thought and culture as reflected in selected works of major writers: Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 354. Russian Literature of the Twentieth Century - WR
3 Units
Term Typically Offered: Spring Odd Years
Description: Reading and discussion of works of modern Russian literature. Authors include Pasternak, Solzhenitsyn, Akhmatova, and others.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 355. Literature of Spain
3 Units
Term Typically Offered: Occasionally Offered
Description: Study of selected works of major writers of Spain.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
M L 356. Latin American Literature 3 Units
Term Typically Offered: Occasionally Offered
Description: Study of selected works of major writers of Latin America.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 361. Modern German Stories - WR 3 Units
Description: Major stories by Hesse, T. Mann and Grass and short stories by Boll as representatives of 20th-century European literature and culture. Treatment of themes such as significance of the individual, relationship between individual and society, and the problems of the artist or exceptional individual.
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 362. Modern German Fiction - WR 3 Units
Description: Major novels by Boll, Hesse and Grass as representative of 20th-century European literature and culture. Treatment of themes such as significance of the individual, relationship between the individual and society, the problems of the artist as exceptional individual.
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 363. Modern German Drama - WR 3 Units
Description: Plays by Frisch, Durrenmatt, Brecht, Weiss, and Buchner. Treatment of themes such as significance of the individual, relationship between the individual and society, the problems of the artist or exceptional individual.
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 364. Masterpieces of German Theater - WR 3 Units
Description: The problem of technology as expounded in major plays by Durrenmatt and Brecht. Issues of social justice and their literary treatment in plays by Hauptmann. Male-female relationships and the question of illusion versus reality in dramas by Schnitzler.
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 365. Women Writers and Filmmakers - WR 3 Units
Description: Explores issues relating to women's lives in the writing of cinematic and fictional texts from 1970s until today; emphasis on foreign-language films. Texts are read in English translation, films are either subtitled or dubbed.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Cross-listed with WGST 373.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 370. Special Topics in Hispanic Studies 3 Units
Term Typically Offered: Spring Odd Years
Description: Focuses on a specific topic related to Hispanic Studies from an interdisciplinary, humanities perspective. Topics announced in the Schedule of Courses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 401. CML Honors Seminar: Foreign Cultures 3 Units
Prerequisite(s): Membership in Classical and Modern Languages Honors Program or Arts and Sciences Honors Program.
Description: A seminar required of all students within the departmental honors program. In-depth study of a foreign culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 500. Study Abroad 1-15 Units
Prerequisite(s): Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.
Description: Credit awarded upon demonstration of successful completion of program undertaken with prior approval of the department, including a paper or project and an oral or written examination in the language and culture, administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 506. Francophone Women Writers - WR 3 Units
Prerequisite(s): Junior standing or faculty consent.
Description: Readings of literary and non-literary texts by women of the French-speaking world.
Note: Cross-listed with WGST 571.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 519. German Intellectual History 3 Units
Prerequisite(s): Consent of instructor.
Description: Consideration of German thought and sensibility from the Middle Ages to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
M L 521. Teaching Techniques in Foreign Languages 3 Units
Prerequisite(s): Current status as a foreign language teacher or consent of instructor.
Description: Teaching methods in foreign languages. Recommended for those teaching or preparing to teach languages.
Note: Cross-listed with LING 521.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 551. Special Topics 3 Units
Prerequisite(s): Consent of instructor.
Description: Special themes and issues of particular significance as reflected in selected works of foreign language, literature or culture.
Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 552. Special Topics 3 Units
Prerequisite(s): Consent of instructor.
Description: Special themes and issues of particular significance as reflected in selected works of foreign language, literature or culture.
Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 553. Selected Authors in Foreign Literature 3 Units
Prerequisite(s): Consent of instructor.
Description: The life and works of significant authors chosen from the panorama of foreign literature; their literary and/or cultural impact on society. Authors will vary from semester to semester.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 561. Masterpieces of Russian Literature 3 Units
Description: Reading and discussion of the three greatest masterpieces of Russian literature: Tolstoy's "War and Peace," Dostoevsky's "Brothers Karamazov," and Pushkin’s "Eugene Onegin".
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 599. Independent Study 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of department chair.
Description: Independent study in areas not covered in the regular curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music (MUS)

MUS 91. Fundamentals of Music I 0 Units
Term Typically Offered: Fall Only
Prerequisite(s): Music majors only or permission of instructor.
Description: For students who are not prepared for the regular freshman music theory courses.
Note: Does not count for credit toward any degree in the School of Music.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 92. Musicianship I 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): Music majors only or permission of instructor.
Description: For students who are not prepared for the regular freshman music theory courses.
Note: Does not count for credit toward any degree in the School of Music.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 97. Recital Attendance 0 Units
Grading Basis: Satisfactory/Unsatisfactory
Term Typically Offered: Fall, Spring
Description: To receive a grade of Satisfactory, students must attend a minimum of 12 convocations or recitals for each of the 6 enrollments in MUS 97.
Note: All undergraduate music students must enroll in and complete 6 semesters of MUS 97 Recital Attendance.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 100. Introduction to Music Study 1 Unit
Term Typically Offered: Fall Only
Description: Introduction to the multiple dimensions of university life, with emphasis on the music experience. Students will gain an understanding of the various parts of the University – the administration, the faculty, the learning resources, support services, advising, and career planning.
Note: Required of all incoming freshmen and transfer students with fewer than 24 semester hours entering the School of Music.
Note: Course formally titled Camp Culture.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 101. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Applied Music: Applied Music courses carry section designsations (see specific semester listing) according to the instrument which a student studies. Section designations are attached to course sequences for major instruments, principal instruments, arts, and secondary instruments. Students enroll for credit in these sequences according to the amount of literature and study they expect to cover and according to the instructor's assessment of the student's ability to perform. An applied music student working toward a degree will enroll for four hours credit on a major instrument (MUS 103 or MUS 113 sequence), for two hours credit on a principal instrument (MUS 111 sequence) or jazz instrument (MUS 105 sequence), or one hour credit on an arts instrument (MUS 125 sequence). All others, including special students, will enroll for one hour credit (MUS 121 or MUS 133 sequence). Lessons for applied majors, principals, and jazz applied students are one hour per week. Students in the music secondary (MUS 121) sequence, arts (MUS 125) sequence, and functional (MUS 133) sequence receive one-half hour lesson per week. Instruction is currently available for: Piano, Oboe, Harpsichord, Clarinet, Organ, Saxophone, Harp, Bassoon, Voice, Trumpet, Violin, Horn, Viola, Trombone, Cello, Euphonium, Bass, Tuba, Flute, Percussion, Guitar.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 102. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson for performance majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 103. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty Consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven Variations, compositions by Chopin, Debussy, Ravel, Albeniz, Prokofiev, Copland, Concertos by Mozart, Beethoven, Schumann, Chopin, Rachmaninoff. Fifth Year: Advanced work and literature beyond senior level. ORGAN: By the end of the eighth semester, the student should have acquired the ability to play compositions of a grade representative of the more difficult works of Bach Preludes, Fugues, and Sonatas, and representative works by principal composers from the various musical periods. VIOLIN: By the end of the fourth semester, the student should have acquired the ability to play compositions of a grade similar to the Viotti Concerto No. 22, the Spohr Concerto No. 2, Bach and Handel sonatas for violin and piano. By the end of the eighth semester, the student should have acquired an adequate technical background in scales, arpeggios, bowing and phrasing, and the ability to perform works of the difficulty of the Mendelssohn E Minor Concerto, the Bruch G Minor, or the Spohr No. 8. ORCHESTRAL INSTRUMENTS: The courses of study for cello, viola, bass, woodwind, and brass instruments follow the general outline of the violin course, and students of these instruments will be expected to acquire a proficiency comparable to that required for violin. VOICE: By the end of the fourth semester, the student should demonstrate a recognition of the importance of breath management, tone placement, vocal legato, correct singing diction, and a sense of poetic interpretation and musical style; should be able to sing arpeggios, major/ minor scales, and various vocalizes as prescribed by the teacher for the student's stage of musical and vocal development; and should have covered a repertoire of twenty (principals) or thirty (majors) songs. By the end of the eighth semester, the student should be able to sing at sight a song of the difficulty level of Schubert's "Heidenroeslein"; should have sung two operatic arias and two oratorio arias in their original languages; should have a knowledge of recitative in both free and measured forms; and should have acquired the vocal and musical expertise to present a recital of 50 minutes of music representing four languages in varying styles and historical periods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 104. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty Consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Prerequisite(s): Admission to School of Music or by approval of instructor.
Description: Introduction to jazz improvisation with emphasis on applications for the music educator/therapist. Development of instructional strategies for use in teaching improvisation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Term Typically Offered: Spring Only
MUS 112. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 113. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 114. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 115. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson focusing on the jazz idiom. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Prerequisite(s): Admission to School of Music or by approval of instructor.
Description: Introduction to jazz improvisation with emphasis on applications for the music educator/therapist. Development of instructional strategies for use in teaching improvisation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 116. Introduction to Music Education
Term Typically Offered: Spring Only
Description: Introduction to music education in the public schools, P-12. Historical perspectives, philosophies, curricula. Off-campus observations.
Note: Must be taken the first spring semester of enrollment in a music education degree program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 117. Introduction to Music Education
Term Typically Offered: Fall Only
Description: Introduction to music education in the public schools, P-12. Historical perspectives, philosophies, curricula. Off-campus observations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 118. Introduction to Jazz Improvisation
Term Typically Offered: Fall Only
Prerequisite(s): Admission to School of Music or by approval of instructor.
Description: Introduction to jazz improvisation with emphasis on applications for the music educator/therapist. Development of instructional strategies for use in teaching improvisation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 119. Minor Ensembles
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Note: For undergraduate students only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 121. Secondary Applied Study 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson: a secondary applied music course carried in addition to the student's major or principal field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 122. Secondary Applied Study 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 123. Diction 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): Grasp of International Phonetic language needed for MUS 124.
Description: Class instruction in English, Italian, German, and French diction based upon the understanding and application of the International Phonetic Alphabet.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 124. Diction 1 Unit
Term Typically Offered: Spring Only
Prerequisite(s): Faculty consent.
Description: Class instruction in English, Italian, German, and French diction based upon the understanding and application of the International Phonetic Alphabet.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 125. Arts Instrument 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 126. Arts Instrument 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 127. Class Piano-Beginners I 1 Unit
Term Typically Offered: Fall, Spring
Description: Introduction to basic techniques of practical piano playing. Students do not need prior experience with the piano or with music.
Note: Not open to Music majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 128. Class Piano-Beginners II 1 Unit
Term Typically Offered: Fall, Spring
Description: Students should be able to read grand staff notation and be able to play simple hands-together piano pieces.
Note: Not open to Music majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 129. Cardinal Singers 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Honors choral ensemble with entrance by audition only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 130. Jazz Piano Class 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 132 or approval of instructor.
Description: This course is designed to give those unfamiliar with the jazz idiom a basic overview of the following skills as they pertain to the piano: voicings for basic jazz harmonic structures in all keys, basic voice leading, bass line construction, form, and basic improvisation skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 131. Piano Class 1 Unit
Term Typically Offered: Fall, Spring
Description: Two one-hour classes weekly. Prepares the student for the piano proficiency examination. Students must pass the complete piano proficiency examination before receiving credit for the final semester of the piano requirement appropriate for their degree. Students must be enrolled continuously in the class until their piano requirement has been completed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 132. Piano Class 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 131.
Description: Two one-hour classes weekly. Prepares the student for the piano proficiency examination. Students must pass the complete piano proficiency examination before receiving credit for the final semester of the piano requirement appropriate for their degree. Students must be enrolled continuously in the class until their piano requirement has been completed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 133. Functional Study 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 134. Functional Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 137. Percussion Methods
Term Typically Offered: Fall, Spring
Prerequisite(s): Music Education Major or permission of instructor.
Description: Methods, materials, and techniques for class instruction on percussion instruments and materials for the beginning band. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 138. Jazz Improvisation
Term Typically Offered: Spring Only
Description: This course is designed to provide the student with an introduction to jazz improvisation. Experience with basic harmony will be accomplished through the practical use of scale - chordal relationships, jazz notation, ear training, rhythmic concepts, jazz style, and articulation. Each student will be required to improvise on the instrument of their choice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 141. Theory I
Term Typically Offered: Fall Only
Prerequisite(s): Admission to the School of Music or permission of instructor.
Description: An introduction to the principles of harmony and voice leading, coordinated with ear training, sight singing, and keyboard harmony, and incorporating a review of the rudiments of music. Note: Students who do not pass the computer-based Fundamentals Test prior to the beginning of the fall semester are required to enroll in MUS 91 for 0 credits concurrently with MUS 141.

MUS 142. Theory II
Term Typically Offered: Spring Only
Prerequisite(s): MUS 141; admission to the School of Music or permission of instructor.
Description: Further study of harmony and musicianship, including non-chord tones, seventh chords, secondary-function chords, modulation, and elementary form. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 143. Composition and Orchestration
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Corequisite(s): MUS 441.
Description: Principles and techniques for students of composition. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 144. Composition and Orchestration
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 143 or permission of instructor.
Corequisite(s): MUS 441.
Description: Principles and techniques for students of composition. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 145. Secondary Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Description: For the non-composition major who wishes to study principles and techniques of composition. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 146. Secondary Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Description: For the non-composition major who wishes to study principles and techniques of composition. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 147. Class Guitar I
Term Typically Offered: Fall, Spring
Description: To acquire a basic working knowledge of the guitar and its possible functions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 148. Class Guitar II
Term Typically Offered: Spring Only
Prerequisite(s): MUS 147 or permission of instructor.
Description: Continuation of MUS 147. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

MUS 152. Beginning Class Guitar - AH, D2
Term Typically Offered: Fall, Spring
Prerequisite(s): Students must have little or no prior knowledge of the guitar.
Description: This introductory course for beginning guitar students establishes and develops fundamental musicianship and technical skills required for guitar playing in any style. Course activities will challenge students to acquire these fundamentals through active learning in daily practice, to think critically about the application of music fundamentals to music performance, and attain an understanding for the guitar and its varied roles in western music through historical and cross-cultural studies. Additional studies will provide basic contextual knowledge of guitar history, literature and repertoire. Assignments include a research paper, performance observations, readings and unit reports. All students may take this course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)
MUS 170. Introduction to Musical Acoustics
Term Typically Offered: Not Offered
Prerequisite(s): Basic knowledge of personal computer operating systems.
Description: Introduction to the physical principles of sound waves required to understand the phenomenon of music, the characteristics of musical instruments, and how sound affects rooms, concert hall, and other spaces.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 171. Audio Engineering
Term Typically Offered: Spring Only
Prerequisite(s): Basic knowledge of personal computer operating systems.
Description: Provides instruction & hands-on experience in music recording & production using digital audio workstation software & studio hardware. Students will learn how to utilize audio equipment in production studio and in the field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 179. Piano Proficiency
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Description: The Proficiency is a gate that must be passed through in order for a student (usually a Sophomore) to gain admission to Senior College Study. The exam covers numerous aspects of a musician's grasp of piano fundamentals, such as: performing a composition from the standard keyboard literature, accompanying a singer or instrumentalist, harmonizing a given melody, sight-reading, and transposition. The Proficiency may be performed all or in part during scheduled times throughout the school year.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 180. Jazz Piano Proficiency
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Description: Shows students grasp of basic jazz skills as they pertain to the piano; voicings, basic voice leading, base line construction, form, and basic improvisation skills.
Note: Required for jazz majors in the BA or BM degrees.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 201. Major Applied Study
Term Typically Offered: Fall, Spring
Description: One hour private lesson for performance majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 202. Major Applied Study
Term Typically Offered: Fall, Spring
Description: One hour private lesson for performance majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 203. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 204. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 205. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson focusing on the jazz idiom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 206. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One hour private lesson focusing on the jazz idiom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 211. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: For students majoring in composition, music education, music history, music therapy, or theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 212. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: For students majoring in composition, music education, music history, music therapy, or theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 213. Principal Applied Study
Term Typically Offered: Fall, Spring
Description: One hour private lesson for piano pedagogy majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 214. Principal Applied Study
Term Typically Offered: Fall, Spring
Description: One hour private lesson for piano pedagogy majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 217. Class Guitar I for Music Therapy
Term Typically Offered: Fall, Spring
Description: Guitar is designed to establish a firm and comprehensive knowledge of the guitar as an accompanying and solo instrument. This course may enhance any pre-existing ability on the guitar, while providing essential rudiments for both the music and non-music major.
Note: Prior knowledge & experience in basic musical skills (note reading, basic theory) is preferred, but not required.
Note: For Music Therapy majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 218. Class Guitar II for Music Therapy
Term Typically Offered: Spring Only
Prerequisite(s): MUS 217 or permission of instructor.
Description: Designed to enhance the comprehensive knowledge of the guitar as an accompanying and solo instrument. Focus will be on an expansion of appropriate repertoire and accompaniment patterns, as well as to improve on technical exercises and studies.
Note: For Music Therapy majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 219. Class Ukulele
Term Typically Offered: Spring Only
Prerequisite(s): Open only to Music Therapy majors.
Description: For students from beginning to intermediate levels to improve their ukulele playing skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 221. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student’s major or principal field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 222. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student’s major or principal field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 225. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 226. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 227. Voice Class
Term Typically Offered: Fall, Spring
Prerequisite(s): For music majors in fall and non-music majors in spring.
Description: Basic techniques of vocal production.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 228. Elementary School Music Methods
Term Typically Offered: Fall Only
Prerequisite(s): MUS 231 or MUS 232; admission to teacher education.
Description: Organizing, teaching, and supervising a grade school music program. Methods, materials, techniques for singing and playing, rhythmic movement, listening, and other creative experiences in music.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 229. Introduction to Woodwinds
Term Typically Offered: Fall Only
Description: Presents framework to aid student in acquiring knowledge and skills for playing and teaching woodwind instruments.
Note: For music education students whose primary instrument is keyboard, voice, or strings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 231. Piano Class III  
Term Typically Offered: Fall, Spring  
Prerequisite(s): MUS 131 and MUS 132.  
Description: Two one-hour classes weekly. Prepares the student for the piano proficiency examination at the end of MUS 231.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 232. Piano Class IV  
Grading Basis: Pass/Fail  
Term Typically Offered: Fall, Spring  
Prerequisite(s): MUS 131, MUS 132, and MUS 231.  
Description: Review course for students who need to complete MUS 297.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 233. Functional Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: One half-hour private lesson weekly in an applied area.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 234. Functional Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: One half-hour private lesson weekly in an applied area.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 235. Woodwind Methods  
Term Typically Offered: Fall Only  
Prerequisite(s): For Music Education students only whose principle instrument is brass, woodwind, or percussion.  
Description: Presents framework to aid student in acquiring knowledge and skills for playing and teaching the five main woodwind instruments.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 236. Advanced Woodwind Methods  
Term Typically Offered: Spring Only  
Prerequisite(s): MUS 235.  
Description: For students who need two semesters of Woodwind Methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 241. Theory III  
Term Typically Offered: Fall Only  
Prerequisite(s): MUS 142; admission to the School of Music or permission of instructor.  
Description: Chromatic harmony, creative writing in 18th- and 19th-century style, further study of form. Ear training, sight singing and keyboard harmony coordinated with written work.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 242. Theory IV  
Term Typically Offered: Spring Only  
Prerequisite(s): MUS 241; admission to the School of Music or permission of instructor.  
Description: Late 19th-century and 20th-century compositional techniques and styles, including expanded tonality, non-serial-tonality, serialism, aleatory, and electronic music. Advanced ear training, sight singing, and keyboard harmony.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 243. Composition and Orchestration  
Term Typically Offered: Fall, Spring  
Prerequisite(s): MUS 142 and MUS 144, or permission of instructor.  
Corequisite(s): MUS 441.  
Description: Principles and techniques for students of composition.  
Note: Public presentation required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 244. Composition and Orchestration  
Term Typically Offered: Fall, Spring  
Prerequisite(s): MUS 243 or permission of instructor.  
Corequisite(s): MUS 441.  
Description: Principles and techniques for students of composition.  
Note: Public presentation required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 246. Contemporary Composition Techniques I  
Term Typically Offered: Fall Only  
Prerequisite(s): MUS 142 (or AP equivalent) or permission of instructor.  
Description: Introduction to compositional techniques of varying styles and aesthetics common in 20th / 21st century composition.  
Note: students should have basic knowledge of industry standard music notation software.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 247. Contemporary Composition Techniques II  
Term Typically Offered: Fall Only  
Prerequisite(s): MUS 142 (or AP equivalent) and MUS 246, or permission of instructor.  
Description: Introduction to compositional techniques of varying styles and aesthetics common in 20th / 21st century composition.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 252. Introduction to Brass  
Term Typically Offered: Fall Only  
Description: Introduction to Brass family, focusing on trumpet, horn, trombone, and tuba.  
Note: For students who lack strong background on wind instruments.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 253. Brass Methods
Term Typically Offered: Fall Only
Description: Focus on development of strong pedagogical skills through performance on trumpet, horn, trombone, euphonium, and tuba.
Note: For Music Education majors with strong background in brass, woodwind or percussion instruments.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 254. Advanced Brass Methods
Term Typically Offered: Spring Only
Prerequisite(s): MUS 253.
Description: To further develop understanding of brass instruments through more intensive performance experience. Primarily for woodwind and percussion music education majors to bolster their comfort and experience performing on brass instruments introduced in MUS 253.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 265. Service Playing I
Term Typically Offered: Not Offered
Description: Historical survey of Christian Hymnody. Classification and use of hymn texts and tunes.
Note: Required of all organ majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 266. Service Playing II
Term Typically Offered: Not Offered
Description: Historical survey of Christian Hymnody. Classification and use of hymn texts and tunes.
Note: Required of all organ majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 297. Piano Proficiency
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 170.
Description: The Proficiency is a gate that must be passed through in order for a student (usually a Sophomore) to gain admission to Senior College Study. The exam covers numerous aspects of a musician’s grasp of piano fundamentals, such as: performing a composition from the standard keyboard literature, accompanying a singer or instrumentalist, harmonizing a given melody, sight-reading, and transposition. The Proficiency may be performed all or in part during scheduled times throughout the school year.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 301. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for performance majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 302. Major Applied Study
Term Typically Offered: Fall, Summer
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for performance majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 303. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 304. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty Consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 305. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson focusing on the jazz idiom. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 306. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson focusing on the jazz idiom. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 311. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 312. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 313. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 314. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 321. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 322. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 325. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 326. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 328. Frameworks for Teaching Music in a Diverse Society
Term Typically Offered: Spring Only
Prerequisite(s): MUS 228 and admission to teacher education.
Description: Introduces methods used for teaching music to children in sixth grade through high school. Special topics, special populations, and discipline are investigated in detail. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 331. Piano Class
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 231 or MUS 232.
Description: Standard keyboard needs for the choral teacher, the voice coach, and the teacher in the general music classroom. The course prepares the student for the second piano proficiency examination. Note: For music education vocal emphasis only. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 332. Piano Class
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 231 or MUS 232, and MUS 331.
Description: Standard keyboard needs for the choral teacher, the voice coach, and the teacher in the general music classroom. The course prepares the student for the second piano proficiency examination.
Note: For music education vocal emphasis only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 333. Functional Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 334. Functional Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 335. String Methods I
Term Typically Offered: Fall Only
Description: Methods, materials, and techniques for class instruction on string instruments and materials for the string orchestra. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 336. String Methods II
Term Typically Offered: Spring Only
Prerequisite(s): MUS 335.
Description: Methods, materials, and techniques for class instruction on string instruments and materials for the string orchestra. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 337. Marching Band Methods
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to teacher education.
Description: Covers administration and management of the high school marching band as part of a total instrumental music program in the public schools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 338. Jazz Methods
Term Typically Offered: Spring Only
Prerequisite(s): MUS 242 or permission of instructor, and admission to teacher education.
Description: This course is designed as an upper division course for juniors and/or seniors who are preparing for a career in secondary music education. It will address the necessary skills for developing and directing a successful jazz band/choir program on the secondary level. The course will explore the historical and philosophical basis for jazz/band choir as an integral part of a comprehensive music curriculum and will provide methodology for interpreting jazz notation and teaching jazz style and improvisation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 339. String Pedagogy and Educational String Literature
Term Typically Offered: Fall Only
Prerequisite(s): MUS 335 and MUS 336 or permission of instructor, admission to teacher education.
Description: This course is designed for the string education specialist or as an elective for string performance majors. Included will be a survey of orchestra literature for middle/high school orchestra and the structuring of a private teaching studio and a survey of appropriate solo and etude literature. May include discussion of the Suzuki Method.
Note: Optional Practicum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 340. Jazz Improvisation II
Term Typically Offered: Fall Only
Prerequisite(s): MUS 138 or permission of instructor.
Description: This course is designed to provide the student with the opportunity to experience jazz improvisation through the study, memorization, and performance of standard jazz repertoire. Harmonic, melodic, and rhythmic concepts will be stressed as they apply to the jazz idiom. Extensive ear training, work with II V 7 I progressions, transcribed solos by master improvisors and student compositions will provide additional study material. Each student will be required to improvise on the instrument of their choice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 342. Band Pedagogy and Educational Wind Band Literature
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to teacher education.
Description: Survey of band literature for middle/high school band and appropriate secondary level solo and etude literature, and the structuring of a private teaching studio.
Note: For wind, brass, or percussion education specialist or as an elective for performance major in these areas.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 343. Composition and Orchestration  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 244 or permission of instructor.  
**Corequisite(s):** MUS 441.  
**Description:** Principles and techniques for students of composition.  
Public presentation required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 344. Composition and Orchestration  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 343 or permission of instructor.  
**Corequisite(s):** MUS 441.  
**Description:** Principles and techniques for students of composition.  
Public presentation required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 345. Orchestral Scoring  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** MUS 141, MUS 142, MUS 241 for BA students, MUS 242 for all other majors.  
**Description:** To become familiar with characteristics, technical capabilities, and idiomatic uses of orchestral instruments.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 346. Band/Choral Scoring  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** Completion of core theory for BA students, MUS 242 for all other majors.  
**Description:** To become familiar with characteristics, technical capabilities, and idiomatic uses of band instruments and voices.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 347. Analysis I  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** MUS 241.  
**Description:** An analytical study of harmonic, contrapuntal, and formal procedures as found in the works of such composers as Bach, Haydn, Mozart, Beethoven, Schubert, Mendelssohn, Chopin, etc.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 348. Analysis II  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** MUS 347.  
**Description:** An analytical study of harmonic, contrapuntal, and formal procedures as found in the works of such composers as Bach, Haydn, Mozart, Beethoven, Schubert, Mendelssohn, Chopin, etc.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 349. Jazz Analysis  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** MUS 241.  
**Description:** Comparative analytical study of harmonic, melodic, and formal procedures as found in American Jazz music.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 350. Analysis of Electronic Media  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** MUS 271.  
**Description:** A study of analytical approaches applied to electronic music & sound art, with a focus on auditory exploration that will facilitate & deepen an organized listening of sound.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 351. Studies in Jazz  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** MUS 242 or permission of instructor.  
**Description:** Section 01 Jazz Style and Analysis Prerequisite: Permission of instructor. Explores through style analysis and transcriptions the major contributions to the art of solos in a historical context. Section 02 Jazz Theory Focus on understanding jazz improvisation through the study of harmony, chord and scale function, form rhythm, meter and articulation as they relate to the jazz idiom.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 352. Jazz Repertoire  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Successful completion of Jazz Barrier Exam or by approval of instructor.  
**Description:** Focus on introducing and expanding the student's knowledge of repertoire associated with the jazz idiom.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 355. The Evolution of Jazz  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** MUS 138, MUS 242, MUS 361, MUS 362, and MUS 363; or permission of instructor.  
**Description:** Traces the evolution of jazz from origins to present. Focus on development of various stylistic trends through innovators of each stylistic trend. Socio-economic factors influencing the music.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 359. Conducting I  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** MUS 141, MUS 142, and MUS 241.  
**Description:** Introduction to and experience with the fundamental gestures, terms, and procedures involved in leading a musical ensemble.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MUS 360. Conducting II</td>
<td>2</td>
<td>Fall, Spring</td>
<td></td>
<td>A continuation of MUS 359 with specific emphasis on the conducting of ensembles of one of the following types: (1) Choral or (2) Instrumental. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 361. Music Literature I (1000-1750)</td>
<td>3</td>
<td>Spring Only</td>
<td>MUS 141 and MUS 142; permission of instructor required for non-music majors.</td>
<td>Study of selected topics relating to development or history from 1000-1750. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 362. Music Literature II (Classical &amp; Early Romantic Music)</td>
<td>3</td>
<td>Fall Only</td>
<td>MUS 141 and MUS 142; permission of instructor required for non-music majors.</td>
<td>Study of selected topics relating to development of music history from Classical to early Romantic music. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 363. Music Literature III (1860-present)</td>
<td>3</td>
<td>Spring Only</td>
<td>MUS 141 and MUS 142; permission of instructor required for non-music majors.</td>
<td>Study of selected topics relating to development of music history from 1860-present. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 370. Seminar in Music History</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>MUS 361 and permission from the department.</td>
<td>Study of selected topics relating to development or history in one of the following subject areas: - History of Chamber Music (solo and ensemble music). - History of Secular Vocal Music (opera, cantata, and art song). - History of Orchestral Music (concerto and symphony). - History of Sacred Vocal Music (mass, oratorio, magnificat, passion, and cantata). - Traditional Music of Kentucky and the South (ballads, dance tunes, old time, bluegrass, and shape note music). - Opera Repertory - History of Jazz (surveys blues, traditional jazz, swing, bebop, free, and progressive). Opera Repertory. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 371. Piano Pedagogy I</td>
<td>3</td>
<td>Fall Only</td>
<td></td>
<td>A survey of piano teaching procedures, beginning methods, and materials for the elementary student, including observation of private instruction and supervised teaching. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 372. Piano Pedagogy II</td>
<td>3</td>
<td>Spring Only</td>
<td></td>
<td>A survey of piano teaching procedures, methods, and materials for the intermediate student including observation of private instruction and supervised teaching. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 375. Music History Tutorial</td>
<td>0.5</td>
<td>Occasionally Offered</td>
<td></td>
<td>Engages students with topics and methodologies pertinent to working with music of specific historical periods. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 397. Junior Recital</td>
<td>0</td>
<td>Fall, Spring</td>
<td></td>
<td>A survey of piano teaching procedures, methods, and materials for the intermediate student including observation of private instruction and supervised teaching. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 400. Theory Review</td>
<td>0</td>
<td>Fall, Spring</td>
<td></td>
<td>A survey of undergraduate theory coursework for entering graduate students who do not pass the Graduate Theory Entrance Exam. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 401. Major Applied Study</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Faculty consent.</td>
<td>One hour private lesson for performance majors. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>MUS 402. Major Applied Study</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Faculty consent.</td>
<td>One hour private lesson for performance majors. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
</tbody>
</table>
MUS 403. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty Consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 404. Major Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty Consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 405. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson focusing on the jazz idioms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 406. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson focusing on the jazz idioms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 411. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 412. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 413. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 414. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 421. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 422. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 425. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 426. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 428. Choral Techniques
Term Typically Offered: Spring Only
Prerequisite(s): MUS 359 and admission to Teacher Education.
Description: Emphasizes vocal problems from the standpoint of the
choral conductor or song leader.
Note: Best if taken concurrently with MUS 360.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 433. Functional Study
1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 434. Functional Study
1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 435. Jazz Arranging I
2 Units
Term Typically Offered: Fall Only
Prerequisite(s): MUS 242 or permission of instructor.
Description: This course is designed to familiarize the student with
all of the rudimentary techniques associated with the art of arranging
jazz music. Two- and three-part writing techniques associated with the
traditional jazz combo will be the focus. Fundamentals of instrument
range, transposition, low interval limits, and performance variants will be
covered.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 436. Jazz Arranging II
2 Units
Term Typically Offered: Spring Only
Prerequisite(s): MUS 435 or permission of instructor.
Description: This course will focus on fundamental four-part writing
techniques associated with the big band jazz ensemble. Idiomatic use
of counterpoint and harmonic substitution will be given emphasis. The
principal, mainstream big band and traditional styles and forms will be a
substantial component of study.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 437. Jazz Arranging III
2 Units
Term Typically Offered: Fall Only
Prerequisite(s): MUS 436 or permission of instructor.
Description: This course will focus on arranging and orchestrating for
the studio recording orchestra with a carry over into pops orchestra
scoring techniques. Ranges and capabilities of orchestral instruments
will be covered as will traditional and contemporary groupings of these
instruments. Line cliche, harmonic and melodic devices, and form will be
of specific focus.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 440. Jazz Improvisation II, III
2 Units
Term Typically Offered: Fall Only
Prerequisite(s): MUS 340 and at least four semesters of MUS 119 or
MUS 109, or by approval of instructor.
Description: To increase the student’s ability to improvise over standard
chord progressions in various keys and at a variety of tempos.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 441. Composition Seminar
0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 143, MUS 144, MUS 243, MUS 244, MUS 343,
MUS 344, MUS 443, or MUS 444.
Description: May be repeated for a total of eight semesters. A forum
for compositional topics, issues, and activities. Intended for theory/
composition majors; open to others by special permission of instructor.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 443. Composition and Orchestration
2 Units
Term Typically Offered: Spring, Summer
Prerequisite(s): MUS 344 or permission of instructor.
Corequisite(s): MUS 441.
Description: Principles and techniques for students of composition.
Public presentation required.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 444. Composition and Orchestration - CUE
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 443 or permission of instructor.
Corequisite(s): MUS 441.
Description: Principles and techniques for students of composition.
Public presentation required.
Course Attribute(s): CUE - This course fulfills the Culminating
Undergraduate Experience (CUE) requirement for certain degree
programs. CUE courses are advanced-level courses intended for majors
with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 461. Baroque Keyboard Literature
2 Units
Term Typically Offered: Occasionally Offered
Description: Survey of Keyboard Literature from the Middle Ages to the
end of the Baroque Period.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

MUS 471. Piano Pedagogy III
3 Units
Term Typically Offered: Fall Only
Description: A continuation of MUS 371 and MUS 372, emphasizing
group and adult piano teaching. Includes observation and supervised
practice teaching.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)
MUS 472. Piano Pedagogy IV  
**Term Typically Offered:** Spring Only  
**Description:** A continuation of MUS 371 and MUS 372, emphasizing advanced levels of piano teaching. Includes observation and supervised practice teaching.  
For class offerings for a specific term, refer to the Schedule of Classes.[^1]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
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<th>Prerequisite(s)</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 472</td>
<td>Piano Pedagogy IV</td>
<td>3 Units</td>
<td>Spring Only</td>
<td>A continuation of MUS 371 and MUS 372, emphasizing advanced levels of piano teaching. Includes observation and supervised practice teaching.</td>
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</tbody>
</table>

MUS 475. Pedagogy Practicum I  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Taken simultaneously with the 3rd semester of pedagogy courses.  
**Description:** To teach weekly lessons to a beginning elementary student.  
For class offerings for a specific term, refer to the Schedule of Classes.[^2]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
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<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 475</td>
<td>Pedagogy Practicum I</td>
<td>1 Unit</td>
<td>Fall Only</td>
<td>Taken simultaneously with the 3rd semester of pedagogy courses. To teach weekly lessons to a beginning elementary student.</td>
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</tbody>
</table>

MUS 476. Pedagogy Practicum II  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** Taken simultaneously with the 4th semester of pedagogy courses.  
**Description:** To teach weekly lessons to a beginning elementary student.  
For class offerings for a specific term, refer to the Schedule of Classes.[^3]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 476</td>
<td>Pedagogy Practicum II</td>
<td>1 Unit</td>
<td>Spring Only</td>
<td>Taken simultaneously with the 4th semester of pedagogy courses. To teach weekly lessons to a beginning elementary student.</td>
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</tbody>
</table>

MUS 477. Special Topics in Music & New Media  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 270, MUS 271, or permission of instructor.  
**Description:** Variable topics focusing on advanced topics relevant to the intersections between the arts and technology.  
**Note:** Course may be repeated as topics vary.  
For class offerings for a specific term, refer to the Schedule of Classes.[^4]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 477</td>
<td>Special Topics in Music &amp; New Media</td>
<td>2 Units</td>
<td>Fall, Spring</td>
<td>Variable topics focusing on advanced topics relevant to the intersections between the arts and technology.</td>
<td>MUS 270, MUS 271, or permission of instructor.</td>
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</tbody>
</table>

MUS 480. Entrepreneurship for the 21st Century Musician  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Open to juniors and seniors.  
**Description:** This course is part of a broader effort to transform the ways in which we prepare 21st-century musicians by cultivating the creative and imaginative powers that reside at the heart of the artist-entrepreneur.  
For class offerings for a specific term, refer to the Schedule of Classes.[^5]  

<table>
<thead>
<tr>
<th>Course ID</th>
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<th>Units</th>
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<th>Description</th>
<th>Prerequisite(s)</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 480</td>
<td>Entrepreneurship for the 21st Century Musician</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>This course is part of a broader effort to transform the ways in which we prepare 21st-century musicians by cultivating the creative and imaginative powers that reside at the heart of the artist-entrepreneur.</td>
<td>Open to juniors and seniors.</td>
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<td></td>
</tr>
</tbody>
</table>

MUS 495. Senior Research Paper/Project - CUE  
**Term Typically Offered:** Occasionally Offered  
**Description:** BM Pre-Certification students will present either 1) a teaching/lecture demonstration live or documented on video, or 2) a curriculum development project as a culminating undergraduate experience(CUE).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes.[^6]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 495</td>
<td>Senior Research Paper/Project - CUE</td>
<td>0 Units</td>
<td>Occasionally Offered</td>
<td>BM Pre-Certification students will present either 1) a teaching/lecture demonstration live or documented on video, or 2) a curriculum development project as a culminating undergraduate experience(CUE).</td>
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</tbody>
</table>

MUS 496. BA Capstone Project  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Senior standing in BA Music (General or Jazz).  
**Description:** Project to be determined in consultation with an advisor and approved by the Director of Undergraduate Studies. Options include but not limited to a recital, paper, internship, or service project.  
**Note:** May require a co-enrollment in appropriate course(s).  
For class offerings for a specific term, refer to the Schedule of Classes.[^7]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 496</td>
<td>BA Capstone Project</td>
<td>0 Units</td>
<td>Fall, Spring</td>
<td>Project to be determined in consultation with an advisor and approved by the Director of Undergraduate Studies. Options include but not limited to a recital, paper, internship, or service project.</td>
<td>Senior standing in BA Music (General or Jazz).</td>
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</tbody>
</table>

MUS 497. Senior Recital - CUE  
**Term Typically Offered:** Fall, Spring  
**Description:** A grade of “CR” credit will be given when the recital is complete. A student must be simultaneously enrolled in at least one applied music course.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes.[^8]  

<table>
<thead>
<tr>
<th>Course ID</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MUS 497</td>
<td>Senior Recital - CUE</td>
<td>0 Units</td>
<td>Fall, Spring</td>
<td>A grade of “CR” credit will be given when the recital is complete.</td>
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<td>Credit/No Credit</td>
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</tr>
</tbody>
</table>

MUS 498. Thesis Guidance - CUE  
**Term Typically Offered:** Fall, Spring  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes.[^9]  

<table>
<thead>
<tr>
<th>Course ID</th>
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<th>Description</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 498</td>
<td>Thesis Guidance - CUE</td>
<td>2-4 Units</td>
<td>Fall, Spring</td>
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</tbody>
</table>

MUS 499. Senior Research Paper/Project - CUE  
**Term Typically Offered:** Fall, Spring  
**Description:** CUE course paper project for Music History majors.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes.[^10]  

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Grading Basis</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 499</td>
<td>Senior Research Paper/Project - CUE</td>
<td>1-4 Units</td>
<td>Fall, Spring</td>
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</table>

[^1]: [htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
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[^9]: [htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
[^10]: [htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 500. Music History Review
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Description: The purpose of the course is to provide the student with a reasonable method of removing deficiencies revealed by the Graduate Entrance Examination. No graduate student will be allowed to enroll in any graduate course in a historical period in which he has failed to pass the corresponding section of the Graduate Entrance Examination until he has removed his deficiency in the history of the subject. Areas covered are: deficiencies within the period from the Middle Ages to 1530; deficiencies within the period between 1530 and 1750; deficiencies within the period between 1750 and 1850; and deficiencies within the period from 1850 to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 501. Major Applied Study
2 Units
Term Typically Offered: Fall, Spring
Description: One-hour private lesson for performance majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 502. Major Applied Study
2 Units
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for performance majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 503. Major Applied Study
4 Units
Prerequisite(s): Faculty consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 504. Major Applied Study
4 Units
Prerequisite(s): Faculty Consent.
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 505. Jazz Applied
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson focusing on the jazz idiom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 506. Jazz Applied
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson focusing on the jazz idiom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 507. Jazz Ensembles
1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Graduate standing in music or by permission of instructor.
Description: Symphony Orchestra; Symphonic Band; Early Music Ensemble; Opera Theater; Jazz Ensemble; Jazz Repertory Ensemble, Concert Band; Pep Band; Wind Ensemble; Wind Symphony; New Music Ensemble; Marching Band; University Chorus; Collegiate Chorale, Vocal Jazz Ensemble, Singing Cardmen.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 511. Principal Applied Study
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 512. Principal Applied Study
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 513. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 514. Principal Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 519. Minor Ensembles
Term Typically Offered: Fall, Spring
Prerequisite(s): Graduate standing in music or by permission of instructor.
Description: Study and performance of works for small ensembles: Piano, String, Woodwind, Brass or Percussion Ensemble; Improvisation; Guitar, Jazz Combo (Instrumental); Jazz Ensemble; Brass Chamber Music, Historical Brass Ensemble; Trombone, Tuba or Tuba/Euphonium; Saxophone Ensemble; Opera Workshop; Clarinet, Flute, Harp Ensemble; Community Band; Historical Instruments and Techla. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 521. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 522. Secondary Applied Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: A secondary applied music course carried in addition to the student's major or principal field. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 525. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 526. Arts Instrument
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Half-hour private lesson for students pursuing the Bachelor of Arts in Music degree. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 527. Choral Music in the Modern Secondary School
Term Typically Offered: Occasionally Offered
Description: Procedures and techniques for use with the high school chorus including such topics as selection of repertoire, voice production, diction, rehearsal psychology, and performance practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 528. Musicians' Wellness
Term Typically Offered: Fall, Spring
Description: An intellectual and experiential understanding of the Alexander Technique and technique of "respiration awareness" mediation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 529. Cardinal Singers
Term Typically Offered: Fall, Spring
Description: Honors choral ensemble with entrance by audition only. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 530. Choral Literature I
Term Typically Offered: Fall, Spring
Description: A survey of choral literature from c.1750. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 531. Choral Literature II
Term Typically Offered: Fall, Spring
Description: A survey of choral literature from c.1750 to present. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 533. Functional Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 534. Functional Study
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 535. Music Industry I
Term Typically Offered: Fall, Spring
Prerequisite(s): Sixty credit hours earned.
Description: A study of current practices affecting the professional musician and a survey of career opportunities relating to music and industry. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 536. Music Industry II
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUS 535.
Description: Continuation of MUS 535. Includes broadcast, performance, marketing, retail sales, audio/video engineering, publishing, law, and labor relations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 537. Advanced Techniques for Marching Bands
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUS 337 or permission of instructor.
Description: Problems in preparing the half-time show. Arranging for the marching band.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 538. Studies in Pedagogy
Term Typically Offered: Fall, Spring
Prerequisite(s): Upper Division or graduate standing.
Description: Pedagogy studies on specific instruments. Offered under separate sections.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 539. Studies in Jazz
Term Typically Offered: Fall, Spring
Prerequisite(s): Vary by section, see course description.
Description: Focus on aural skills, transcription methods, and advanced jazz harmony topics. Extended functional harmony and advanced rhythmic concepts. Examples will focus on transcribed solos by established jazz masters. Sections include: (01) Jazz Style Analysis, Prereq: Theory IV and MUS 138 and permission of instructor. Explores jazz style through analysis of historically significant transcribed solos as played by jazz masters (02) Advanced Jazz Theory, Prereq: Jazz Theory I or passing grade on Jazz Theory Entrance Exam. (03) Standard Jazz Repertoire Prereq: MUS 138 and permission of instructor. Focuses on learning compositions from standard jazz repertoire. While improvisation is stressed as an important part of the learning process, the main objective will be to learn and memorize melodies and chord progressions of selected pieces from number of musical styles. Each class session will concentrate on a specific style, composer, and/or type of composition tune. A variety of tempos and keys will be chosen. Selected compositions may be performed with play-a-long recordings or with other students in class.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 541. Private Non-Major Music Composition I
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to graduate music study or permission of the instructor.
Description: Composition study for graduate students who are not composition or music theory majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 542. Private Non-Major Music Composition II
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to graduate music study or permission of the instructor.
Description: Composition study for graduate students who are not composition or music theory majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 543. Advanced Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Corequisite(s): MUS 441 for undergraduates, MUS 669 for graduates.
Description: Continuation of MUS 444. Public presentation required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 544. Advanced Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of Instructor.
Corequisite(s): MUS 441 for undergraduates and MUS 669 for graduates.
Description: Continuation of MUS 444. Public presentation required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 545. Advanced Instrumental Scoring
Term Typically Offered: Fall, Spring
Prerequisite(s): Undergraduate orchestration course or permission of instructor.
Description: Analysis of orchestration techniques by 19th- and 20th-century composers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 547. Chromatic Harmony and Analysis
Term Typically Offered: Spring Only
Prerequisite(s): MUS 242 and MUS 347.
Description: A study of chromatic harmony and voice leading, expanded tonality, and extended forms. Analysis of music of the late 19th and early 20th centuries; creative writing in styles of this period.
Note: Credit not allowed for both MUS 547 and MUS 647.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 548. Post-Tonal Theory and Analysis
Term Typically Offered: Fall Only
Prerequisite(s): MUS 547.
Description: Survey of post-tonal theory. Analysis of centric, atonal, serial, and other music composed since 1900.
Note: Credit not allowed for both MUS 548 and MUS 648.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
<td>2</td>
<td>Fall Only</td>
<td>Upper division or graduate standing.</td>
<td>A study of 16th-century vocal polyphony in the style of Palestrina, Lassus, et al.; including stylistic composition in two or more voices.</td>
</tr>
<tr>
<td>MUS 550</td>
<td>Baroque Counterpoint</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Upper division or graduate standing.</td>
<td>Study of 18th-century counterpoint, emphasizing Bach’s style and forms, including stylistic composition in two or more voices.</td>
</tr>
<tr>
<td>MUS 551</td>
<td>Studies in Improvisation</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Upper division, graduate standing in music, or permission of instructor.</td>
<td>Improvisation and open-form music are explored through creation and performance, and the study of various improvisation traditions.</td>
</tr>
<tr>
<td>MUS 552</td>
<td>Pedagogy of Theory</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Upper division or graduate standing.</td>
<td>Analysis and discussion of various methods of teaching the elements of music theory.</td>
</tr>
<tr>
<td>MUS 555</td>
<td>Instrument Repair</td>
<td>2</td>
<td>Not Offered</td>
<td></td>
<td>Repair of woodwind and brass instruments.</td>
</tr>
<tr>
<td>MUS 557</td>
<td>Piano Technology I</td>
<td>2</td>
<td>Occasionally Offered</td>
<td>Permission of instructor.</td>
<td>Study of the complex inner workings of the piano. Includes basics of tuning and maintenance.</td>
</tr>
<tr>
<td>MUS 558</td>
<td>Piano Technology II</td>
<td>2</td>
<td>Occasionally Offered</td>
<td>MUS 557 or permission of the instructor.</td>
<td>Study of the complex inner workings of the piano. Includes basics of tuning and maintenance.</td>
</tr>
<tr>
<td>MUS 559</td>
<td>Instrumental Conducting and Score Reading</td>
<td>2</td>
<td>Fall, Spring</td>
<td>MUS 346 or permission of instructor.</td>
<td>Conducting techniques and problems for the public school instrumental director. Reading from full score. Survey of literature.</td>
</tr>
<tr>
<td>MUS 561</td>
<td>Literature</td>
<td>2</td>
<td>Fall, Spring</td>
<td>MUS 361 series or permission of instructor.</td>
<td>Offered under the various subtitles/sections: (01) Piano Literature I: A survey of piano repertoire from the Baroque and Classical Eras. (02) Band Literature: A survey of literature for wind and percussion instruments in large ensemble combinations focusing upon material for the standard instrumentation of the concert band. Emphasis will be given to dramatic change in the repertoire from 1950 to the present, particularly the implications for instrumental music education. Course work will include both artistic and practical considerations with study of works by Hindemith, Stravinsky, Schoenberg, Persichetti, Gould, and Ives. (03) Organ Literature: A comprehensive study in the field of organ literature from Schlich to Hindemith. No performance required. (05) Vocal Literature: A survey of vocal literature from the 18th century to the present day, with emphasis on standard repertoire. Program analysis and program building.</td>
</tr>
<tr>
<td>MUS 562</td>
<td>Literature</td>
<td>2</td>
<td>Fall, Spring</td>
<td></td>
<td>A survey of piano repertoire from the Romantic and Modern Eras.</td>
</tr>
<tr>
<td>MUS 563</td>
<td>Literature</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Upper division or graduate standing.</td>
<td>Performance Literature for specific instruments. Offered under separate sections.</td>
</tr>
<tr>
<td>MUS 564</td>
<td>Literature</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Upper division or graduate standing.</td>
<td>Performance Literature for specific instruments. Offered under separate sections.</td>
</tr>
<tr>
<td>MUS 565</td>
<td>Church Music Literature</td>
<td>2</td>
<td>Not Offered</td>
<td></td>
<td>Designed to acquaint the student with church music repertoire of the past and present and to give practical training in service playing and accompanying.</td>
</tr>
</tbody>
</table>
MUS 566. Church Music Literature 2 Units
Term Typically Offered: Not Offered
Description: Designed to acquaint the student with church music repertoire of the past and present and to give practical training in service playing and accompanying.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 567. Introduction to Electronic and Computer Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 270 or permission of instructor.
Description: Introduction to computer music studio, including MIDI sequencing, analog and FM sound synthesis, digital recording and editing, video synchronization, multimedia applications, and comprehensive study of the literature and styles of the class tape studios.
Note: Cross-listed with MUS 667.
Note: Credit not allowed for both MUS 567 and MUS 667.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 568. Advanced Topics in Computer Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 567 or permission of instructor.
Description: Study of advanced synthesis techniques, digital sampling, direct digital synthesis, and study of recent literature and trends in computer music.
Note: Cross-listed with MUS 668.
Note: Credit not allowed for both MUS 568 and MUS 668.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 570. Studies in Music History 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): See note below.
Description: Areas of study are Medieval Music, Renaissance Music, Baroque Music, Viennese Classicism, Romantic Music, Twentieth-Century Music, Jazz, Opera Repertory. MUS 570, MUS 580, and MUS 585 - MUS 586 are intended for master’s degree students or advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor. Master's degree students may enroll in these courses at the 600-level under two conditions: (1) when 600-level courses are required by a specific curriculum (e.g., MM in Music History), and (2) with the approval of the student's advisor. Undergraduates may not register in these courses at the 600-level without the approval in writing of the chair of the Music History Department. The following criteria, subject to adjustment by the instructor according to the nature of the course and its organization, will distinguish the work of students registered under one or the other number. Students enrolled in either 500- or 600-level courses are required to write term papers. Research papers at the 600-level are expected to demonstrate originality and the ability to use resources in at least one foreign language, and in general are expected to be of a quality appropriate to a professional paper. While students enrolled at either level are required to participate in a seminar by presenting reports and papers, those registered at the 600-level may be required to assume full responsibility for the development and direction of a study, by the whole class, of a particular subject or problem.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 571. Pedagogy 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Varies by section—see description.
Description: Topics vary by section. Sections include: (01) Piano Pedagogy. Prereq: MUS 371, MUS 372, MUS 471, MUS 472. Examination, evaluation, and discussion of piano teaching materials at all levels. (03) Advanced Brass Pedagogy Teaching, observing, study, research, and lecture of brass teaching techniques, Prereq: For seniors or graduate students only. (05) Voice Pedagogy. Prereq: 3 years of college-level voice study. For advanced students wishing to study the principles and techniques involved in teaching voice, with supervised practice teaching designed to give practical studio teaching experience. (06) Organ Pedagogy Prereq: For Seniors or Grad Study only. Basic concepts of observing & teaching beginning, intermediate, and advanced organ students. (07) Jazz Pedagogy Addresses pedagogical techniques of teaching jazz. Prereq: MUS 242 and MUS 351, or graduate student standing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 572. Pedagogy 2 Units
Term Typically Offered: Fall, Spring
Description: Refer to: MUS 571.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 575. Music Production  
**Term Typically Offered:** Fall, Spring  
**Description:** Introduction to computer-based music recording and production using state-of-the-art software.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 576. Multimedia Production  
**Term Typically Offered:** Fall, Spring  
**Description:** Introduction to technical aspects of creating multimedia projects with audio and video hardware and software.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 577. Marching Band Drill Writing  
**Term Typically Offered:** Fall, Spring  
**Description:** Introduces principles of contemporary and traditional drill writing techniques and styles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 578. The Music of the Black Church  
**Term Typically Offered:** Fall, Spring  
**Description:** This course is designed for the upper division or graduate student in music or Pan-African studies and explores the historical and musical development of African American sacred music from slavery to the present; from Spirituals to traditional and contemporary Gospel music. Special emphasis is given to the impact that this music has had on African-American culture in the United States, which represents a synthesis of African and European cultures into a unique hybrid with its own tradition of development.  
**Note:** Cross-listed with PAS 578.

MUS 579. 21st-Century Entrepreneurship for Musicians  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Open to Juniors, Seniors, and graduate music majors.  
**Description:** Part of a broader effort to transform the ways in which we prepare 21st-century musicians by cultivating the creative and imaginative powers that reside at the heart of the artist-entrepreneur.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 580. Seminars in the Music of the Great Composers  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** For masters students or for advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 582. Seminar in Historical Performance Practice  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Graduate standing or faculty consent.  
**Description:** Study and application of performance techniques from different eras based on period sources and modern study.  
**Note:** Knowledge of one foreign language helpful, but not required.

MUS 583. Notation and Analysis  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Permission of instructor.  
**Description:** Paleography, transcription and editing of musical manuscripts and publications through the Renaissance.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 585. Seminars in the History of Forms, Media, Philosophy, or Techniques of Composition  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** For masters students or for advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 586. Composition for Digital Media I  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 567, MUS 568, and upper division standing in the School of Music.  
**Description:** Focus on advanced techniques, theory, and practices of computer-generated/assisted music composition.  
**Note:** Credit not allowed for both MUS 586 and MUS 683.  
**Note:** Cross-listed with MUS 683.

MUS 587. Composition for Digital Media II  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 567, MUS 568, and MUS 586; upper-division standing in the School of Music.  
**Description:** Continuation of topics studied in MUS 586.  
**Note:** Cross-listed with MUS 684.  
**Note:** Credit not allowed for both MUS 587 and MUS 684.

MUS 590. Independent Study  
**Term Typically Offered:** Fall, Spring  
**Description:** Students may take no more than 6 hours of Independent Study in fulfilling requirements for any degree.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Music Education (MUED)

MUS 591. Special Topics  1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Description: One or more advanced topics not treated comprehensively in regular course offerings. To understand why different interpretations of a musical piece are chosen and help student acquire tools to be an independent musician.
Note: May be repeated for credit when topics vary.
Note: Credit not allowed for both MUS 591 and MUS 691 on the same topic.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 592. Suzuki Violin Teacher Training  2 Units
Prerequisite(s): Violin students playing at a minimum level of Seitz Concerto No. 5, Movement I, and Vivaldi Concerto in A Minor Movement 3.
Description: An understanding of and training in the Suzuki approach to violin instruction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 597. Recital  0 Units
Term Typically Offered: Fall, Spring
Description: A grade of "CR'' credit will be given when the recital is complete. A student must be simultaneously enrolled in at least one applied music course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music Dance (MUSD)

MUSD 120. Introduction to Dance Fundamentals  2 Units
Term Typically Offered: Fall Only
Description: Introduction to dance including an initial exploration of basic dance fundamentals, an overview of the elements that constitute classical and modern ballet and modern technique.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUSD 320. Dance Theatre  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Entrance by audition and permission of Dance faculty only.
Description: For pre-professional dancer to provide both training and performing experience.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music Education (MUED)

MUED 102. Practical Applications in Music Education  0.5 Units
Term Typically Offered: Fall, Spring
Description: Four to six semesters provides students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting.
Note: For all music education and pre-certification degree students; must be taken prior to MUED 520, MUED 533, and MUED 534.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 201. Practical Applications in Music Education  0.5 Units
Term Typically Offered: Fall, Spring
Description: Four to six semesters provide students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting.
Note: For all music education and pre-certification degree students; must be taken prior to MUED 520, MUED 533, and MUED 534; for all music education and pre-certification degree students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 202. Practical Applications in Music Education  0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUED 201.
Description: Four to six semesters provide students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting. For all music education and pre-certification degree students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 301. Practical Applications in Music Education  0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUED 202.
Description: Four to six semesters provide students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting. For all music education and pre-certification degree students.
Note: Must be taken prior to MUED 520, MUED 533, and MUED 534.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUED 302. Practical Applications in Music Education 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUED 301.
Description: Four to six semesters provide students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting. For all Music Education and Pre-certification degree students.
Note: Must be taken prior to MUED 520, MUED 533, and MUED 534.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 316. Music and Movement in Early Childhood 2 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor.
Description: Methods, materials, and philosophic rationales for caregivers, therapists, and teachers in pre-school, daycare and primary grade settings to develop early childhood music and movement programs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 401. Practical Applications in Music Education 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUED 302.
Description: Four to six semesters provide students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting.
Note: For all Music Education and Pre-Certification degree students; must be taken prior to MUED 520, MUED 533, and MUED 534.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 402. Practical Applications in Music Education 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUED 401.
Description: Four to six semesters provide students with opportunity to interact with other students in professional setting for educational activities related to their degree. Includes rehearsal observations and practical rehearsal experience in conducting.
Note: For all Music Education and Pre-certification degree students; must be taken prior to MUED 520, MUED 533, and MUED 534.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 405. Introduction to Orff Schulwerk: Music and Movement Education 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Teacher Education, upper-division status in Music Therapy, or permission of instructor.
Description: Students will experience and learn fundamental elements of Orff Pedagogy-Music and Movement education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 505. Introduction to Orff Schulwerk: Music & Movement Education 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Graduate standing, admittance to Teacher Education, upper-division status in Music Therapy, or permission of instructor.
Description: Students will experience and learn fundamental elements of Orff Pedagogy-Music and Movement education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 516. Music and Movement in Early Childhood 2 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor.
Description: Methods, materials, and philosophic rationales for caregivers, therapists, and teachers in pre-school, daycare, and primary grade settings to develop early childhood music and movement programs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 520. Student Teaching Elementary School 5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUED 556, 2.75 overall GPA, admission to Teacher Education.
Corequisite(s): MUED 533 and MUED 534.
Description: Experience in the classroom and in the total school program in observation and supervised teaching at the elementary level.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 533. Human Interaction/Professional Growth 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Teacher Education; MUS 228 and MUED 556.
Corequisite(s): MUED 520 and 534.
Description: For student teacher to apply field experience to a professional philosophy while reflecting on career goals common to K.D.E. and MENC content standards of music education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 534. Student Teaching Secondary 5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 228, MUED 556, 2.75 GPA, admission to Teacher Education, and completion of 24 hours of teaching major is required.
Corequisite(s): MUED 520 and MUED 533.
Description: Provides supervised observation, participation, and teaching.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUED 556. Special Methods in Secondary Teaching  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Admission to teacher education and MUS 228.  
Description: Course addresses the teaching of instrumental and/or vocal music in the elementary and secondary schools.  
Note: Taken prior to MUED 520, MUED 533, and MUED 534.  
Note: No student may receive credit for both MUED 556 and MUED 605 or MUED 606.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music Education (MUSE)

MUSE 525. Public School Music  
Term Typically Offered: Not Offered  
Description: Music fundamental and best practice for the classroom teacher as applied in P-6 settings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUSE 590. Independent Study  
Term Typically Offered: Not Offered  
Description: Independent study on a topic done in consultation with a faculty member.  
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music History (MUH)

MUH 204. Music in Western Civilization - AH  
Term Typically Offered: Fall, Spring, Summer  
Description: Introductory course surveying history of Western art music from the Middle Ages to present. Special attention given to social, cultural, and political contexts in which music was created and performed throughout its history.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 205. Music in World Cultures - D2, SB  
Term Typically Offered: Fall, Spring, Summer  
Description: General introduction to the world of music covering basic elements of music along with the socio-cultural aspects of music and music-making from an ethnomusicological perspective.  
Note: Cross-listed with ANTH 205.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 212. History of Rock and Roll - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Description: Broad overview of historical development of Rock and Roll and its music precedents from mid-twentieth century to the early 1980s. Explores social, cultural, economic, and philosophical aspects of various styles of Rock and Roll music.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 214. African-American Music - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Description: Examines African-American music from a historical perspective, from its origins to the present. It will explore the development of various stylistic trends that characterize African-American music and socio-economic factors and events which have influenced it. There will be discussion on the evolution of and changes in musical style and form. Students will be introduced to innovators via audio and video recordings.  
Note: Cross-listed with PAS 214.  
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 215. Hip-Hop Music and History - AH, D1  
Term Typically Offered: Occasionally Offered  
Description: With an emphasis on music, this course will trace the history of Hip-Hop, from the varied influences that gave rise to this cultural phenomenon (such as the musical influences of R&B, Funk, and Jamaican music, and such political/social influences as the Black Power Movement and racial segregation) to the worldwide musical and cultural dominance that the genre holds today.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 217. History of Country Music - AH, D1  
Term Typically Offered: Fall, Spring, Summer  
Description: Broad overview of historical development of Country Music and its music precedents from early twentieth century to present. Explores social, cultural, economic, and philosophical aspects of various styles of Country Music.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 218. Survey of American Jazz - AH, D1  
Term Typically Offered: Fall, Summer  
Description: Non-music majors will have a historical examination of the evolution of jazz music. They will study the development of various stylistic trends that characterize jazz and the socioeconomic factors and events that have influenced it as well as the evolution of its musical style and form. Students will be introduced to innovators through their recordings.  
Note: Cross-listed with PAS 218.  
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUH 219. Survey of Brazilian Music 3 Units
Term Typically Offered: Occasionally Offered
Description: Course will trace evolution of Brazilian music from origins to present and explore development of various stylistic trends. Includes discussion of socio-economic factors and events influencing Brazil's native art music.
Note: Cross-listed with PAS 219.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 230. Dance and Music in Society and Culture - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Explores music and dance together throughout history and across culture. Examines wide variety of works from folk dance, social dance, court dance, theatrical dance, ballet, modern, and the music for each.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 301. Fundamentals of Music for Non-Majors 3 Units
Term Typically Offered: Not Offered
Description: Historical perspectives of theory and practice of Western music and composition. Introduction to and practical application of notation, harmony, melody, form, media, and compositional techniques.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 302. Music of the Middle Ages and Renaissance 3 Units
Term Typically Offered: Not Offered
Prerequisite(s): MUH 204 or faculty consent.
Description: From Gregorian chant through Palestrina and Lasso.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 303. Music of the Baroque 3 Units
Term Typically Offered: Not Offered
Prerequisite(s): MUH 204 or faculty consent.
Description: Vocal and instrumental music from Monteverdi through Bach.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 304. Music of the Classical and Early Romantic Periods 3 Units
Term Typically Offered: Not Offered
Prerequisite(s): MUH 204 or faculty consent.
Description: Survey of Classical through early Haydn through early Wagner and Verdi.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 305. Music of the Late Romantic and Modern Periods 3 Units
Term Typically Offered: Not Offered
Prerequisite(s): MUS 204 or faculty consent.
Description: Survey of late Romantic through Contemporary eras (late Wagner/Verdi through present day).
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 306. Music of the Late Romantic and Modern Periods 3 Units
Term Typically Offered: Not Offered
Prerequisite(s): MUS 204 or faculty consent.
Description: Survey of late Romantic through Contemporary eras (late Wagner/Verdi through present day).
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 307. Music in the Theatre - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Overview of music theatre from antiquity to present. Studies unique symbiotic relationship between two divergent art forms and the new genres this process has created.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 308. Music in America 3 Units
Term Typically Offered: Occasionally Offered
Description: Introduction to the history of styles and forms in jazz from the late nineteenth century to the present.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 309. Studies in Ethnomusicology - AH 3 Units
Term Typically Offered: Occasionally Offered
Description: General introduction to the world of music and field of Ethnomusicology. Students will learn basic elements of music and various socio-cultural aspects of music and music-making from ethnomusicological perspective.
Note: Cross-listed with ANTH 313.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 310. History of Jazz 3 Units
Term Typically Offered: Occasionally Offered
Description: A survey of folk music from Kentucky and the south: dance tunes, old time, ballads, bluegrass, and shape note music.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 311. Studies in American Traditional Music 3 Units
Term Typically Offered: Occasionally Offered
Description: A survey of American's concert and popular music from the Pilgrims to the present.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 312. Music of the Americas - AH 3 Units
Term Typically Offered: Occasional
Description: A survey of American's concert and popular music from the Pilgrims to the present.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUH 313. Studies in Ethnomusicology - D2, SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: General introduction to the world of music and field of Ethnomusicology. Students will learn basic elements of music and various socio-cultural aspects of music and music-making from ethnomusicological perspective.
Note: Cross-listed with ANTH 313.
Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUH 315. Music and Sound in Film 3 Units
Term Typically Offered: Fall Only
Description: Explores the art of music and sound in film from early cinema through today. Students will learn to critically listen to music and sound in film and develop an understanding of the history and broad impact of film and sound technology.
For class offerings for a specific term, refer to the Schedule of Classes.

MUH 317. Popular Music in American Culture - AH, D1 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Survey of historical development of American popular music from minstrelsy of mid-nineteenth century to hip-hop of late twentieth century. Explores social, cultural, economic, and philosophical aspects of various styles of American popular music including Ragtime, Tin Pan Alley, Jazz, Country and Western, Rhythm and Blues, Rock, and Rap.
For class offerings for a specific term, refer to the Schedule of Classes.

MUH 320. Women in Music: A History - AH, D1 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Addresses the historical and social contexts and social constructions of gender related to women and music, as well as the portrayal of women in musical works. Includes focus on Western art music as well as various genres of popular music.
Note: Cross-listed with WGST 320.
For class offerings for a specific term, refer to the Schedule of Classes.

MUH 401. Senior Thesis - CUE 2 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUS 441.
Description: Thesis course for Music History non-majors.
Note: Not open to Music majors.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 101. Introduction to Music Therapy 1 Unit
Term Typically Offered: Fall Only
Description: Overview of the use of music therapy with various populations, bases for the use of music in therapy, and professional issues in music therapy. Includes observation of a music therapy session.
Note: Open to all interested students.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 113. Clinical Music Therapy Applications I 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 101.
Description: Provide opportunity for Music Therapy students to apply learned skills to musical situations they will encounter as music therapists.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 201. Music Therapy Techniques I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MUTH 101; accepted as a Music Therapy major.
Description: Skills for music therapy assessment, treatment planning and implementation, evaluation, and communication of progress; music therapy strategies and adaptations for specific clientele; group dynamics; skills for verbal facilitation. Observe and assist with music therapy sessions.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 202. Music Therapy Techniques II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MUTH 201; accepted as a Music Therapy major.
Description: Music therapy strategies and adaptations for specific clientele; definition of music therapy; process of therapy, established theories of psychotherapy and relationship to music therapy. Observe and assist with music therapy sessions.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 213. Clinical Music Therapy Applications II 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 113.
Description: Continuation of MUTH 113.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 214. Clinical Music Therapy Applications III 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 213.
Description: Continuation of MUTH 213.
For class offerings for a specific term, refer to the Schedule of Classes.

MUTH 301. Psychology of Music 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Courses or other background in music.
Corequisite(s): Therapy majors take concurrently with MUTH 321.
Description: Psychological foundations of music including neurology and the brain, cognition, perception, emotional meaning, musical development and learning; testing for musical ability; research methodology. Applications to music therapy, music education, and other musical interests.
For class offerings for a specific term, refer to the Schedule of Classes.
MUTH 302. Introduction to Research in Music Therapy 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MUTH 301; non-Music Therapy majors may take with permission of instructor.
Description: Conducting, reading, and interpreting music therapy research, including quantitative and qualitative methodologies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 311. Improvisation for Music Therapy I 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 202, MUS 231, and MUS 297.
Description: To help Music Therapy students develop improvisational skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 313. Clinical Music Therapy Applications IV 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 214.
Description: Continuation of MUTH 214
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 314. Clinical Music Therapy Applications V 0.5 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUTH 313.
Description: Continuation of MUTH 313.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 315. Piano Accompaniment for Music Therapy 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): MUS 297.
Description: Provide Music Therapy students with skills needed to provide piano accompaniments for music therapy sessions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 321. Practicum in Music Therapy I 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 202; accepted as a Music Therapy major.
Description: Supervised music therapy clinical experience. Application of music therapy principles and practices to clinical work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 322. Practicum in Music Therapy II 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 321; accepted as a Music Therapy major.
Description: Supervised music therapy clinical experience. Application of music therapy principles and practices to clinical work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 325. Music Therapy Training Group I 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): Three (3) Music Therapy courses or permission of instructor.
Description: A two-semester group experience in which students experience the music therapy group process as group members, learning about group process in music therapy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 326. Music Therapy Training Group II 1 Unit
Term Typically Offered: Spring Only
Prerequisite(s): MUTH 325.
Description: A two-semester group experience in which students experience the music therapy group process as group members, learning about group process in music therapy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 413. Clinical Music Therapy Applications VI 0.5 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUTH 314.
Description: Continuation of MUTH 314.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 421. Practicum in Music Therapy III 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 322; accepted as a Music Therapy major.
Description: Supervised music therapy clinical experience. Application of music therapy principles and practices to clinical work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 422. Practicum in Music Therapy IV 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): MUTH 421; accepted as a Music Therapy major.
Description: Supervised music therapy clinical experience. Application of music therapy principles and practices to clinical work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUTH 431. Principles and Practices of Music Therapy I 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MUTH 301; accepted as a Music Therapy major.
Corequisite(s): MUTH 321, MUTH 322, MUTH 421, or MUTH 422.
Description: Music therapy with people with learning, neurological, motor, and medical problems. Characteristics and needs; literature on music therapy with these problems; applications to clinical work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### Nursing (NURS)

**NURS 101. S.T.A.T. for Nursing Students (Success Tips And Techniques)**

Term Typically Offered: Fall Only  
Prerequisite(s): Admission to the School of Nursing or the College of Arts & Sciences Nursing pre-major student program plan.  
Description: Campus culture course designed especially for nursing students. This course focuses on the multiple attributes and skills necessary for a successful course of study in the nursing program. Emphasis is on knowing and accessing available resources for optimal students learning outcomes.  
For class offerings for a specific term, refer to the Schedule of Classes.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 201. Introduction to Wellness Coaching</td>
<td>3</td>
<td>Fall, Spring</td>
<td>NURS 201 and admitted to the Wellness Coaching minor</td>
<td>This course is designed to provide a hands-on wellness coaching opportunity for university students to coach participate toward a positive health behavior change.</td>
<td>Fall, Spring</td>
<td>NURS 201 and admitted to the Wellness Coaching minor</td>
<td>Provide a hands-on wellness coaching opportunity for university students to coach participate toward a positive health behavior change.</td>
</tr>
<tr>
<td>NURS 301. Internship in Wellness Coaching</td>
<td>3</td>
<td>Fall, Spring</td>
<td>NURS 201 and admitted to the Wellness Coaching minor</td>
<td>This course contains a clinical component.</td>
<td>Fall, Spring</td>
<td>NURS 201 and admitted to the Wellness Coaching minor</td>
<td>This course builds on the general education communication course and applies oral and written communication techniques to professional nursing practice.</td>
</tr>
<tr>
<td>NURS 330. Special Topics</td>
<td>1-15</td>
<td>Fall, Spring, Summer</td>
<td>Refer to “Nursing Schedule Notes” available through the Office of Student Services, School of Nursing.</td>
<td>These courses contain a variety of contemporary topics in nursing that relate to clinical practice.</td>
<td>Fall, Spring, Summer</td>
<td>Refer to “Nursing Schedule Notes” available through the Office of Student Services, School of Nursing.</td>
<td>These courses contain a variety of contemporary topics in nursing that relate to clinical practice.</td>
</tr>
<tr>
<td>NURS 338. Lifespan Pathophysiology</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>BIOL 257, BIOL 258, BIOL 261, BIOL 262, CHEM 105, and CHEM 201 or appropriate equivalency; students must be admitted to the School of Nursing lower division program code NU BSN.</td>
<td>Focuses on the body’s response to pathological processes throughout the lifespan. Emphasis is on using knowledge of normal physiology to understand adaptive and maladaptive processes of pathological conditions.</td>
<td>Fall, Spring, Summer</td>
<td>BIOL 257, BIOL 258, BIOL 261, BIOL 262, CHEM 105, and CHEM 201 or appropriate equivalency; students must be admitted to the School of Nursing lower division program code NU BSN.</td>
<td>Focuses on the body’s response to pathological processes throughout the lifespan. Emphasis is on using knowledge of normal physiology to understand adaptive and maladaptive processes of pathological conditions.</td>
</tr>
<tr>
<td>NURS 342. Professional Nursing Communication</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>This course builds on the general education communication course and applies oral and written communication techniques to professional nursing practice.</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>This course builds on the general education communication course and applies oral and written communication techniques to professional nursing practice.</td>
</tr>
<tr>
<td>NURS 343. Health Assessment for the Professional Nurse</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>Introduces concepts, skills and techniques necessary to perform comprehensive, individual health assessment for professional nursing practice.</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>Introduces concepts, skills and techniques necessary to perform comprehensive, individual health assessment for professional nursing practice.</td>
</tr>
<tr>
<td>NURS 344. Community Health Nursing</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>This course provides students the opportunity to gain hands-on experience in a variety of community settings in developing depth and breadth of knowledge in holistic assessment and intervention to promote the health of populations around the world.</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>This course provides students the opportunity to gain hands-on experience in a variety of community settings in developing depth and breadth of knowledge in holistic assessment and intervention to promote the health of populations around the world.</td>
</tr>
<tr>
<td>NURS 345. Foundations of Professional Nursing Practice</td>
<td>4</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>This course is designed to introduce professional nursing principles while teaching students to apply foundational knowledge of nursing care. Skills practiced in lab will facilitate application of cognitive, psychomotor and interpersonal skills.</td>
<td>Fall, Spring, Summer</td>
<td>Admission to the upper division in the School of Nursing.</td>
<td>This course is designed to introduce professional nursing principles while teaching students to apply foundational knowledge of nursing care. Skills practiced in lab will facilitate application of cognitive, psychomotor and interpersonal skills.</td>
</tr>
</tbody>
</table>
### NURS 346. Management of Care of the Adult Health Client I
5 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to the upper division in the School of Nursing.  
**Description:** This course is to focus on care management of adults, including young adults, middle-ages, and geriatric clients, who have chronic health conditions and are experiencing alterations in body systems.  
**Note:** This course contains a clinical component.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 347. Health Assessment  
3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission to the upper division in the School of Nursing.  
**Description:** This course focuses on assessment component of the nursing process as a foundation of professional nursing practice. A systematic approach to client interview and physical exam techniques are emphasized.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 351. Adult Health Nursing  
7 Units  
**Prerequisite(s):** NURS 338, NURS 341, NURS 342, NURS 343, and NURS 395.  
**Description:** Application of Lifeskills for professional nursing focusing on acute and chronic care of adult and families. Experiences emphasize secondary and tertiary prevention and care of aggregates, families and individuals.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 352. Pediatric Health Nursing  
7 Units  
**Prerequisite(s):** NURS 338, NURS 341, NURS 342, NURS 343, and NURS 395.  
**Description:** Application of Lifeskills for professional nursing focuses on acute and chronic care of children and families. Experiences emphasize secondary and tertiary prevention and care of aggregates, families and individuals.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 355. Portfolio Equivalency  
30 Units  
**Grading Basis:** Pass/Fail  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Admission into the RN-BSN online program (academic plan code NUR BSNUDO).  
**Description:** The student provides a comprehensive portfolio documenting prior educational, professional and life experiences in preparation and practice as a registered nurse.  
**Note:** 30 credit hours for equivalency at no charge.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 356. Management of Care of the Adult Health Client II  
7 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** NURS 344, NURS 345, and NURS 347.  
**Description:** This course focuses on care management of adults, including young, middle-aged and geriatric clients, who have acute health conditions, and experiencing alterations in body systems.  
**Note:** This course contains a clinical component.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 357. Maternal-Newborn Nursing  
4 Units  
**Prerequisite(s):** NURS 344, NURS 345, NURS 346, and NURS 347.  
**Description:** Utilizing active learning experiences, this course focuses on nursing care of childbearing families from preconception through the neonatal period with emphasis on multiple factors that impact health promotion, decision making, and disease management.  
**Note:** This course has a clinical component.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 358. Nursing Research for Evidence-Based Practice  
2 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** NURS 344, NURS 345, NURS 346, and NURS 347.  
**Description:** This course is designed to explore the translation of research into practice to resolve clinical issues and improve patient outcomes. It emphasizes the ability to locate, interpret, and evaluate research study reports and research-based clinical guidelines.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 360. Health Status Assessment  
3 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Admission to the Accelerated RN-BSN program and completion of foundational coursework.  
**Description:** This course introduces basic physical assessment skills that enhance the students’ ability to carry out the assessment phase of the nursing process. Students collect health status data from classmates and practice physical examination skills.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### NURS 365. Pharmacology  
3 Units  
**Prerequisite(s):** Admission to the Accelerated RN-BSN program.  
**Description:** Students will gain knowledge of the properties and actions of pharmacological agents for application in clinical practice.  
**Note:** This is a web-enhanced course.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 370. Integration for Practice 3 Units
Prerequisite(s): Admission to the Accelerated RN-BSN program and completion of foundational coursework.
Description: This course uses creative methodologies to facilitate students' integration of basic concepts in assessment, pharmacology and pathophysiology for clinical practice within the context of professional liveskills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 375. Pathophysiology 3 Units
Prerequisite(s): Admission to the Accelerated RN-BSN program.
Description: This course focuses on the body's response to pathological processes throughout the lifespan. Emphasis is on using knowledge of normal physiology to understand adaptive and maladaptive processes of pathological conditions.
Note: This is a web-enhanced course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 380. Pharmacotherapeutics for RN's 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the upper division in the School of Nursing.
Description: Examines principles of nursing management for pharmacological interventions. Concepts of pharmacodynamics and pharmacokinetics for common drug classifications will be explored.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 381. Foundations for Evidenced-Based Professional Nursing 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to the Accelerated RN-BSN program.
Description: Provides opportunity for registered nursing student to transition in the baccalaureate nursing program and explore and create components of professional evidence-based nursing care in a dynamic health care environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 382. Nursing Research for Evidence-Based Practice 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 381.
Description: Focuses on research process as it relates to health and nursing practice. Emphasizes abilities to interpret research reports and apply research evidence to nursing practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 383. Case Management of Individuals and Families 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 381.
Description: Examines the significance of concepts related to complex health problems, the importance of chronicity of health status, and multidimensional problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 384. Global Healthcare Issues, Systems and Policies 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 338, NURS 360, NURS 381, and NURS 380.
Description: Examines the political and social factors that contribute to poor health nationally and globally, legal, economic, political factors impacting health care will be evaluated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 385. Nursing Leadership and Health Policy 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 381 and NURS 382.
Description: This course provides an introduction to nursing leadership and an overview of health policy. Principles, theories, practices employed by successful nurse leaders will be explored.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 387. Pathophysiology and Pharmacotherapeutics for RNs 4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission into the RN-BSN online program (academic plan code NUR BSNUDO).
Description: This course examines pathophysiology as the body's response to pathological processes. An emphasis is placed on the student's use of knowledge of normal physiology to understand adaptive and maladaptive processes of chronic pathological conditions. The student will examine nursing management of chronic pathological conditions in selected populations using principles of pharmacotherapeutics, pharmacodynamics and pharmacokinetics for safe and effective pharmacological interventions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 388. Global Health: Disparities and Social Determinants - D2, SB 3 Units
Term Typically Offered: Fall, Spring
Description: This course examines health disparities and the influence of culture, social determinants of health, and health policy that contribute to health outcomes in global populations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 395. Nursing Pharmacotherapeutics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 251, BIOL 262, BIOL 257, BIOL 258, CHEM 105, and CHEM 201 or appropriate equivalency; students must be admitted to the School of Nursing lower division program code NU BSN.
Description: Provides nursing students a basis for the clinical application of pharmacology, including pharmacotherapeutics, pharmacodynamics and pharmacokinetics. Emphasis is placed on learning drug classifications by clinical indication or body system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### NURS 401. Introduction to Professional Nursing Practice  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** Admission into the graduate second degree program (academic plan code NURSMSNEPN).  
**Description:** This course provides the foundational components of professional nursing practice including theoretical bases, roles & responsibilities, professional values, issues & trends, and relationship between nursing action and client outcomes.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 402. Therapeutic Nursing Intervention**  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** Admission into the graduate second degree program (academic plan code NURSMSNEPN).  
**Description:** This course provides an introduction to concepts and principles of nursing practice focusing on implementation of therapeutic nursing interventions. Laboratory and clinical applications of cognitive, psychomotor, and interpersonal skills are emphasized.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 403. Adult Health**  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** NURS 404 and NURS 405.  
**Description:** This course focuses on the application of life skills for professional nursing. Emphasis is on acute and chronic care and case management of adults and families. Secondary and tertiary prevention and care for aggregates, families, and individuals is explored.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 404. Childbearing**  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** NURS 401, NURS 402, and NURS 503.  
**Description:** This course focuses on the concepts related to health promotion and disease management across the preconception through neonatal spectrum. Emphasis is placed on the relevance of decision-making choices that impact the childbearing family.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 405. Child Health**  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** NURS 401, NURS 402, and NURS 503.  
**Description:** This course focuses on the essential concepts, theories, and developmental processes fundamental in understanding the acute and chronic health concerns and problems of children and their families.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 406. Psychiatric/Mental Health**  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** NURS 403.  
**Description:** This course includes the application of life skills for professional nursing, focusing on acute and chronic care of clients with mental health alterations. Experiences are provided in a variety of settings with selected populations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 407. Community Health**  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** NURS 403.  
**Description:** This course provides students the opportunity to gain hands-on-experience in a variety of community settings. The focus is to develop a depth and breadth of knowledge regarding holistic assessment and intervention to protect and promote the health of populations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 408. Care of the Adult with Complex Health Needs**  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** NURS 403.  
**Description:** This course provides students the opportunity to apply knowledge in the care of individuals and families with complex health needs. An emphasis is placed on acquiring competencies necessary for the development of the professional nurse advocate.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 409. Capstone**  
**Grading Basis:** Pass/Fail  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** NURS 408.  
**Description:** This course provides students opportunities to apply knowledge in the care of individuals and families in a dynamic healthcare setting. Emphasis is on developing the role of the professional nurse advocate.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 441. Nursing Care of the Childbearing Family**  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** NURS 351 and NURS 352.  
**Description:** Application of Lifeskills for professional nursing, focusing on the care of childbearing families across the spectrum of pregnancy and birth. Experiences emphasize health-promoting behaviors in childbearing families.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
**NURS 442. Mental Health Nursing**  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** NURS 351 and NURS 352.  
**Description:** Application of Lifeskills for professional nursing, focusing on acute and chronic care of clients with mental health alterations. Experiences are provided in a variety of settings with selected populations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 443. Essentials of Quality Professional Nursing  
**Prerequisite(s):** NURS 351 and NURS 352.  
**Description:** Application of Lifeskills and processes integral to professional nursing. Components of the course include case management, systems, professional behaviors, quality improvement, and evidence-based practice.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 451. Synthesis of Complex Heath Needs  
**Prerequisite(s):** NURS 441, NURS 442, and NURS 443.  
**Description:** Synthesizes Lifeskills for professional nursing. Experiences emphasize professional nursing care of clients with complex health needs. Clinical assignments provide extensive professional nursing experience with clients in selected settings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 452. Transition to Nursing Practice  
**Prerequisite(s):** NURS 441, NURS 442, and NURS 443.  
**Description:** Discusses trends and issues as they relate to Lifeskills critical for transition to professional nursing practice.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 460. Internship in Nursing  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** NURS 450.  
**Description:** This course provides an intensive clinical experience in a selected setting which allows students the opportunity to improve time management, gain control and self-confidence, explore the realities of role acquisition, and add documentation to portfolio/resume.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 465. Research in Clinical Practice  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** NURS 338, NURS 360, NURS 370, and NURS 395.  
**Description:** This course will help the RN student determine the adequacy of a research study by teaching the fundamentals of research and learning to critique research studies for their applicability to clinical nursing practice.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 466. Global Healthcare Issues, Systems and Policies  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** NURS 371, NURS 372, and NURS 374.  
**Description:** This course examines contemporary issues in global health and trans-cultural nursing. Additional Course Objective: Analyze issues of cultural care diversity in relation to a trans-cultural nursing framework and how it relates to nursing care delivered across setting and across the lifespan.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 470. Community Health Nursing  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** NURS 381; NURS 382, NURS 386 or NURS 388; and NURS 482.  
**Description:** This course focuses on health care populations in the community with emphasis on public health principles to promote health and prevent diseases.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 475. Professional Issues  
**Prerequisite(s):** NURS 465 and NURS 470.  
**Description:** This course explores present trends in the profession and health care system, national and state issues which impact nursing, and the role of the nurse. Content in this course changes as issues and trends change.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 476. Community Leadership Practicum - CUE  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** NURS 381; NURS 382; NURS 386; or NURS 388; NURS 482.  
**Corequisite(s):** NURS 470.  
**Description:** Provides student opportunities to apply knowledge and synthesize insight gained through their educational experience to perform primary, secondary, and tertiary prevention interventions in a community setting.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 480. Complex Health Management  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** NURS 465 and NURS 470.  
**Description:** This course includes concepts related to complex health problems, the impact of chronicity on health status, and multidimensional problems. Clinical practice will focus on current and future health care delivery systems such as managed care with an emphasis on case management.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 481. Child Health Nursing  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** NURS 356, NURS 357, and NURS 358.  
**Description:** This course is designed to present essential concepts, theories and developmental processes fundamental to understand the acute and chronic health concerns and problems of children and their families.  
**Note:** This course contains a clinical component.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 482. Health Promotion for Individuals, Families, and Communities 3 Units
Term Typically Offered: Fall, Spring, Summer
Corequisite(s): NURS 381.
Description: Introduces student to nursing theorist to evaluate nursing practice in changing health care environment. Provides opportunity to expand knowledge as it relates to the significance of contemporary issues in professional nursing practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 483. Theories and Issues in Professional Nursing Practice 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 338, NURS 360, NURS 380, and NURS 381.
Description: Introduces student to nursing theorist to evaluate nursing practice in changing health care environment. Provides opportunity to expand knowledge as it relates to the significance of contemporary issues in professional nursing practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 484. Transition to Professional Nursing Practice 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 360, NURS 380, NURS 381, NURS 382, NURS 383, NURS 384, NURS 385, NURS 482, and NURS 483.
Description: Explores and analyzes issues regarding role transition into professional practice as a baccalaureate prepared nurse.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 485. Management of Health Care 3 Units
Prerequisite(s): NURS 465 and NURS 470.
Description: This course focuses on the conceptual foundation, theories and practical applications of the principles of leadership and management. Lifeskills related to critical thinking and communication with multiple health care professionals is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 486. Management of Care of the Adult Health Client III 5 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 356, NURS 357, and NURS 358.
Description: Knowledge gained in Management of Care I and II is synthesized and applied in providing care for adults, including young adult, middle-aged and geriatric clients with complex health conditions, who are experiencing alterations in body systems.
Note: This course contains a clinical component.
Note: Previously taught as NURS 471.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 487. Psychiatric-Mental Health Nursing 5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): NURS 356, NURS 357, and NURS 358.
Description: This course is designed to develop knowledge, skills, and attitudes in providing mental health care across the lifespan in a variety of settings. Student will become change agents in reducing the stigma related to mental illness.
Note: This course contains a clinical component.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 488. Leadership Project 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 381, NURS 382.
Corequisite(s): NURS 385.
Description: This course provides the opportunity to apply concepts in nursing leadership and health policy in a selected setting. The roles of nurse advocate and change agent are stressed in this project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 491. Transition to Professional Nursing Practice 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 481, NURS 486, and NURS 487.
Description: This course is designed to provide the student with a framework for transition from student to novice professional nurse and planning for career path.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 492. Global Public Health 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 481, NURS 486, and NURS 487.
Description: This course integrates contemporary issues in the clinical application of factors that contribute to health locally, regionally, nationally, and globally.
Note: This course has a clinical component.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 493. Nursing Leadership and Management 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): NURS 481, NURS 486, and NURS 487.
Description: This course is designed to introduce leadership, management, and health policy principles and health care delivery systems processes. This course focuses on the theory and practice of nursing leadership/management and the skills and characteristics necessary to be a successful professional nurse.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 494. Capstone in Professional Nursing Practicum - CUE 7 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): All upper division nursing courses.
Description: Provides student opportunities to apply knowledge in the care of individuals and families in a dynamic healthcare setting. Emphasis is on developing the role of the professional nurse advocate.
Course Attribute(s): CUE - This course fulfills the Caring Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 500. Variables Impacting Health Care Delivery: A Global Context 3 Units
Description: Disparities in international health care delivery and the contributing variables will be explored. Culture-specific content is based on the country of study and is delivered by the interdisciplinary faculty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 501. Pathophysiology 4 Units
Prerequisite(s): Department Permission.
Description: This course emphasizes the synthesis of preexisting knowledge of normal physiology to understand pathophysiological processes common among individuals and populations across the lifespan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 502. Pharmacology 3 Units
Prerequisite(s): Department Permission.
Description: This course is designed to provide nursing students with a sound basis for the clinical application of pharmacology. The basics of core drug knowledge, including pharmacotherapeutics, pharmacodynamics, and pharmacokinetics are covered. Emphasis is placed on learning drug classifications by clinical indication or body system with advanced understanding of potential drug interactions, pharmacogenetics and pharmacoeconomics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 503. Health Assessment 3 Units
Prerequisite(s): NURS 501 and NURS 502; admitted to MSN program.
Description: The focus of this course is on the assessment component of the nursing process. A systematic approach to interviewing and physical exam techniques across the lifespan (neonate to generic) is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 504. Leadership 3 Units
Prerequisite(s): NURS 404, NURS 405, and NURS 607.
Description: This course is designed to provide the student with theoretical principles and skills needed for leadership and professional role development within complex healthcare systems. Effective communication as a member of an interprofessional team, leadership focusing on the delivery of patient-centered care, strategies to provide quality cost-effective healthcare will be emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 506. Leadership/EBP/Policy 2 Units
Prerequisite(s): NURS 408 and NURS 608.
Description: This practicum will require students to formulate a leadership/management, policy or evidence-based project based on the assessed needs of their clinical site. With approval from their clinical preceptor and instructor, students will apply knowledge and skills acquired in their master's course work in the completion of the project and the presentation of outcomes/findings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 507. Transitions to Practice 2 Units
Prerequisite(s): NURS 408 and NURS 608.
Description: This course will assist students to make the transition to professional nursing practice. Students will learn about current legislative and practice issues, discuss legal aspects of nursing practice, and prepare for the certification and licensure process.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 510. Application of Pathophysiology and Pharmacology Concepts I 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): MEPN Program admission.
Corequisite(s): NURS 404 and NURS 405.
Description: Apply previously learned pathophysiology and pharmacology concepts in the care of pediatric and maternal health patients.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 511. Application of Pathophysiology and Pharmacology Concepts II 1 Unit
Term Typically Offered: Fall Only
Prerequisite(s): NURS 510.
Description: Apply previously learned pathophysiology and pharmacology concepts in the care of adult patients.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 575. Introduction to Forensic Nursing 2 Units
Prerequisite(s): Must be admitted to the upper division undergraduate nursing program or graduate nursing program.
Description: An elective course to introduce the students to the role of the forensic nurse. This experimental course covers forensic principles as they relate to the living and field experiences are integrated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 606. Healthcare Systems 3 Units
Description: The U.S. healthcare system evolution, services, policy, and delivery are examined and compared politically, ethically, technologically, environmentally, and socioeconomically. Availability, access, regulation, and accountability are considered using systems theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Pan-African Studies (PAS)

PAS 200. Introduction to Pan-African Studies - D1, SB 3 Units
Term Typically Offered: Fall, Spring
Description: Introduces students to the academic discipline of Pan-African Studies. Students will be introduced to critical issues, themes, perspectives, debates, and emerging trajectories within the discipline. In addition to orienting students to the discipline of Black Studies, the course also exposes students to significant historical, social, political, and cultural issues that have shaped the experiences of people of African descent in the United States and throughout the diaspora. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 204. Introduction to African Studies 3 Units
Term Typically Offered: Fall, Spring
Description: A survey course on Africa - a vibrant continent in transition, with its richly diverse peoples and their histories; belief systems; social, economic and political organizations; art, performance, and cultural practices. (Social Studies)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 205. Race, Color and Consciousness - D1, SB 3 Units
Term Typically Offered: Fall, Spring
Description: Do #BlackLivesMatter advocates have a legitimate argument that America has historically and contemporarily marginalizes people based on race? Is race more important than class? Does America define race differently than other countries? This course wrestles with these questions and more as it explores how the African-descended experience has developed in different ways around the globe. The historic struggle for personhood and humanity by African people when they encounter non-colored core groups in various western societies also has certain commonalities. The course focuses on the experiences of diasporic Africans in North America, South America, and the Caribbean who have lived in societies that are socially, politically, and economically controlled by such groups. It is especially designed to expose students to a comparative view of race relations and reasoning in a number of societies in an effort to more fully examine the evolving American approach to race.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 206. Introduction to Caribbean Studies - D2, SB 3 Units
Term Typically Offered: Spring Only
Description: This course provides a general overview and introduction to Caribbean Studies. It explores the historical, cultural, and sociological perspectives that shaped the Caribbean region, as well as the contemporary Caribbean. Areas of emphasis include history of the people, politics, language, and culture; race, ethnicity, and social class; domestic organizations-gender roles and family. The course also explores social issues affecting the United States and the Caribbean through community-based learning. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 207. Introduction to Philosophy through Cultural Diversity - AH, D2 3 Units
Term Typically Offered: Fall, Spring
Description: Survey of historical canonical contributions to western philosophy juxtaposed with minority voices to understand how social, economic, and cultural situatedness affect bodies of knowledge. (Humanities)
Note: Cross-listed with PHIL 207 and WGST 207.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 210. Introduction to Pan-African Literature - AH, D2 3 Units
Term Typically Offered: Occasionally Offered
Description: An examination of African, Caribbean and African-American literature over time, focusing upon shared symbols and cultural aesthetics. (Humanities)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 214. African-American Music - AH, D1 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Examines African-American music from a historical perspective, from its origins to the present. It will explore the development of various stylistic trends that characterize African-American music and socio-economic factors and events which have influenced it. There will be discussion on the evolution of and changes in musical style and form. Students will be introduced to innovators via audio and video recordings.
Note: Cross-listed with MUH 214.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 217. Introduction to Indigenous Religions of Africa, the Americas and the Pacific Basin 3 Units
Term Typically Offered: Occasionally Offered
Description: An introduction to the religious beliefs and practices of selected indigenous communities in Africa, the Americas and the Pacific Basin. (Humanities)
Note: Cross-listed with HUM 217.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 218. Survey of American Jazz - AH, D1  
Term Typically Offered: Fall, Summer  
Description: Non-music majors will have a historical examination of the evolution of jazz music. They will study the development of various stylistic trends that characterize jazz and the socioeconomic factors and events that have influenced it as well as the evolution of its musical style and form. Students will be introduced to innovators through their recordings. (Humanities)  
Note: Cross-listed with MUH 218.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 219. Survey of Brazilian Music  
Term Typically Offered: Occasionally Offered  
Description: In this course designed for non-music majors, the evolution of Brazilian music will be traced from its origins through the present. The course will explore the development of the various stylistic trends that characterize the music of Brazil. The socio-economic factors and events which have influenced the course of Brazil’s native art music will be included in the discussion as will the evolution of and changes in the musical style and form. In addition, students will be introduced to the innovators of each style through recordings, videos and the internet. (Humanities)  
Note: Cross-listed with MUH 219.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 227. Survey of American Diversity  
Term Typically Offered: Spring, Summer  
Description: The interrelated histories of Native Americans of African, Asian, and European descent. Examination of racial and ethnic diversity in contemporary United States. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 247. Language, Protest and Identity - D1, SB  
Term Typically Offered: Fall, Spring  
Description: Sociolinguists see language as more than a question of people talking to each other. Language not only communicates ideas, but also communicates our identities in a society. It identifies us as we see ourselves and it identifies us, as others perceive us. Embodied in the act of human communication is a complex set of rules for how to send a message and another set of rules for how to interpret that message. Beyond these rules, socially constructed preconceptions, such as issues of race, class, and gender, can have an influence on the way people choose to communicate with others and on how that communication is understood by others. Much of this operates subtly and below our consciousness, such as when we say one thing, but our kinesics (body language) displays a different attitude. However, there are some, particularly those working in politics or advertising, who have developed a keen ability to manipulate or otherwise channel messages for a special effect. Recognizing how these various factors work, and their effect on the ability of people to understand one another, is particularly important in the current era. Societies have become more complex and diverse populations are now faced with the challenges of sharing the same living and working space. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 272. Reggae Music & the Politics of Black Liberation - AH, D2  
Term Typically Offered: Spring Only  
Description: The history of R&B from its post-WWII origins to the post-Civil Rights Movement era, with particular emphasis on its impact on the U.S. and global popular culture and ideas about race. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 273. The Rhythm and Blues Revolution and American Culture - AH, D1  
Term Typically Offered: Occasionally Offered  
Description: The history of R&B from its post-WWII origins to the post-WWII anti-colonial struggles and quest for cultural identity and integrity with influences of U.S. and British music. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 300. Humanities Special Topics in Pan-African Studies  
Term Typically Offered: Fall, Spring  
Description: Intensive study of a particular topic or aspect of Africa or the Diaspora, to be announced in the schedule of courses.  
Note: May be repeated as topics vary, but no more than six hours will be accepted in the major.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 301. Social Sciences Special Topics in Pan-African Studies  
Term Typically Offered: Fall, Spring  
Description: Intensive study of a particular topic or aspect of Africa or the Diaspora, with a social sciences perspective.  
Note: May be repeated as topics vary, but no more than six hours will be accepted in the major.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 305. Legal Lynchings: A Survey of Race, Law, and the American Justice System  
Term Typically Offered: Fall, Spring  
Description: A historical study of the American justice system and its treatment of persons of African descent. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 308. Contemporary Trends in African-American Art - WR 3 Units
Term Typically Offered: Spring Only
Description: A survey of contemporary African-American art since the 1960s into current trends today. Students will examine contemporary paintings, sculpture, fabric art, folk art, public art, and installation art. Emphasis will be on the social, cultural, spiritual and religious influences expressed in contemporary art.
Note: Cross-listed with ARTH 349.
Note: Approved for Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 310. African-American Art I: From West Africa to 1920s 3 Units
Term Typically Offered: Fall Only
Description: Relationship between African and African-American art from the slave era through the Harlem Renaissance in its aesthetic, social, cultural and political contexts.
Note: Cross-listed with ARTH 343.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 311. African-American Art History II: From the 1920s to Present 3 Units
Term Typically Offered: Spring Odd Years
Description: Relationship between art of the Harlem Renaissance, Black art of the 1960s and the contemporary art in its aesthetic, social, cultural and political contexts.
Note: Cross-listed with ARTH 344.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 312. African Americans in American Media 3 Units
Term Typically Offered: Fall, Spring
Description: The evolution of the popular image of African Americans as reflected in the visual media of television and the cinema. (Social Sciences)
Note: Cross-listed with COMM 326.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 313. Urban Ritual Violence 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of the role of ritual in gang culture; discussion of the power of ritual to reinforce and reflect cultural values. Analysis of cultic traditions in gangs in their historical relationships to religious institutions. Critical reflection on the use of ritual violence in organizational and institutional life in human societies. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 314. Black Psychology 3 Units
Term Typically Offered: Spring Only
Description: Forces shading the thoughts, beliefs, life strategies, and concerns of persons of African descent. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 315. Theatre of the African World - AH, D2 3 Units
Term Typically Offered: Spring Only
Description: This course is a cross-cultural examination of theatre and performance modes of select cultural and ethnic groups within Africa and the African Diaspora. The material will focus on performance and dramatic scripts by artists from West and South Africa, East Africa, the Caribbean, and the United States. We will investigate the distinctions in the manifestations of "theatre," "drama," and "performance" in Africa and the African Diaspora by means of lectures, play readings, written responses, in-depth discussions, video screenings, student projects, and presentations. (Humanities)
Note: Cross-listed with TA 365.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 317. African-American Religion - AH, D1 3 Units
Term Typically Offered: Fall Only
Description: This course explores various religious beliefs, practices, experiences, traditions and institutions of African descended people in the United States. Students will be introduced to a range of African American religious traditions and a variety of perspectives within African American religious thought. These traditions and their respective beliefs and practices will be situated within their proper historical, social and cultural contexts.
Note: Cross-listed with HUM 377.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 318. African-American Cultural Traditions 3 Units
Term Typically Offered: Fall Only
Description: Intensive examination of various systems of adaptation of people of African descent in the Americas, such as cultural traditions, urbanization and kinship. (Social Sciences)
Note: Cross-listed with ANTH 318.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 319. African-American History I - D1, SBH 3 Units
Term Typically Offered: Fall, Spring
Description: A unified study of the economic, social, cultural, political, and educational development of African Americans in the United States. Division date: 1865. (Social Sciences)
Note: Cross-listed with HIST 319.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 320. African-American History II - D1, SBH 3 Units
Term Typically Offered: Fall, Spring
Description: A unified study of the economic, social, cultural, political, and educational development of African Americans in the United States. 1865 to present.
Note: Cross-listed with HIST 320.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 322. The History of the Civil Rights Movement, 1900 to Present 3 Units
Term Typically Offered: Fall Only
Description: Study of the modern civil rights movement, its leaders, programs and strategies, from 1900 to present. (Social Sciences)
Note: Cross-listed with HIST 322.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 324. Politics, Political Violence and Black Resistance 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of the structural, institutional and personal dimensions of violence and the human drama as it unfolds in situations of oppression. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 325. Politics of Black Male Identity in Post-Modern America 3 Units
Term Typically Offered: Spring Only
Description: Examination of factors which contribute to the construction of black American male identity from fraternities and gangs to everyday "cool". (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 326. Black Political Thought: Africa to Afrocentricity 3 Units
Term Typically Offered: Occasionally Offered
Description: Theories and philosophies which have driven the black experiences before and during the African Diaspora and the scholarly and social significance of the Afrocentric movement in the academy. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 327. Politics of the Black Community - D1, SB 3 Units
Term Typically Offered: Fall Only
Description: The politics of black sub-communities in the context of political behavior research; political socialization, sub-community power structure, leadership, voter and party roles, strategies of protest, and government outputs. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 329. Slave Trade and Slavery 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An historical and sociological study of the trans-atlantic slave trade through 1900. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 330. Women in African-American Religion 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PAS 200 or consent of instructor.
Description: Role and history of African-American religious institutions of the U.S. Focus on women of African descent in the suffrage, abolitionist, civil rights movements and the womanist movement in contemporary black theology and African-American Islam. (Humanities)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 331. Color Complex of Black Women 3 Units
Term Typically Offered: Fall Even Years
Description: Study of phenotypes, body image, inter-/intra-gender relationships, media influences, and social norms, from slavery to present, on the development of Black female identities using theories in psychology, sociology, and deconstruction. (Social Sciences)
Note: Cross-listed with WGST 349.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 332. African-American Women - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of the status and roles of African-American women from the slave era to contemporary times. Emphasis on migration, urbanization and labor force participation as well as in familiar contexts. (Social Sciences)
Note: Cross-listed with WGST 348.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 333. Black Student Experience: Issues with Persistence & Inclusion in PWIs - D1, SB 3 Units
Term Typically Offered: Spring Only
Description: Explore the unique challenges of Blacks in higher education in relation to issues of access, retention, graduation, student engagement, satisfaction, and identity formation at Predominantly White Institutions (PWIs). There is an examination of best practice models on Black student retention, using empirically-based methods and mentoring theories and practices. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 335. Survey of African-American Education - D1, SB 3 Units
Term Typically Offered: Fall, Spring
Description: An in-depth look at the efforts of African Americans to secure educational opportunity and access with special emphasis on contemporary curricular and political issues. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 338. Race and Economics 3 Units
Term Typically Offered: Occasionally Offered
Description: An examination of the economic character of African-American urban areas. Focus on the types of businesses, capital accumulation and their role in urban America. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 339. Black Women and the Criminology system 3 Units
Term Typically Offered: Occasionally Offered
Description: Black Women in the Criminal Justice System will examine the various ways the legal system impacts and regulates Black women. Students will critically analyze the effect court decisions and laws have on Black women using an intersectional approach of race, gender, economic class, differently abled bodies, sexual orientation, religion, and nationality. Students will first study legal standards and terminology as well as race and gender theory to develop a solid foundation on which to examine case law, constitutional standards and current events. This course is designed to give students an understanding of how the justice system impacts Black women's lives, maintains systems of inequality, and regulates their bodies. We will look at women lead the criminal justice reform movement both within and outside of the legal system.
Note: Cross-listed with SOC 339 and WGST 339.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 340. African-American Literature - AH, D1 3 Units
Term Typically Offered: Fall, Spring
Description: Survey of African-American literature from the 18th Century to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 341. Black Film and Literature - AH, D1 3 Units
Term Typically Offered: Fall Only
Description: Examines history of Black filmmaking and written literature. Explores films and written texts from African, African-American and Caribbean artists. (Humanities)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 342. Black Women Novelists - AH, D2, WR 3 Units
Term Typically Offered: Spring Only
Description: Selected novels by contemporary African, African-American and Caribbean women writers, in-depth and in-comparative study. Historical period: Post-1900. (Humanities)
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Cross-listed with WGST 342 and ENGL 342.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 344. Black Lesbian Lives 3 Units
Term Typically Offered: Spring Only
Description: Course focuses on black, lesbian-identified people cross-culturally, examining autobiographical accounts and visual culture within the context of LGBTQ politics and discourse. (Social Sciences).
Note: Cross-listed with WGST 344.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 345. Museums, Culture and Nationhood 3 Units
Term Typically Offered: Occasionally Offered
Description: Examines the historical and cultural dimensions of museums; explores representations of ethnic groups in museum settings and public culture.
Note: Cross-listed with ANTH 342.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 346. African Languages in the Diaspora - D1, SB 3 Units
Term Typically Offered: Occasionally Offered
Description: The course investigates the intersections of linguistic behavior with race, class, and culture within the context of the global African Diaspora. Students will gain an understanding of the broad scope of the African Diaspora and of its impact upon questions of communication and identity in diverse global cultures. Students will gain a fresh perspective in the issues of race, class, and culture as seen in the many manifestations of African and other linguistic influences observed across the African Diaspora. Considering various media, students will examine literature, political speech, popular culture, and other expressive forms as they broaden their concept of "language." An appreciation of the complexity and variety of forms of human communication will provide insights into the appeal and adoption of linguistic and other expressive features across cultural lines. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 348. Aesthetic in the Africana Community 3 Units
Term Typically Offered: Occasionally Offered
Description: Investigation of what motivates and informs the behavior, expression, music, thought, philosophy and creativity of Black or African descended people. (Humanities).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 349. African Americans and Islam  
Term Typically Offered: Spring Only  
Description: Exploration of the complex relationship between African Americans and Islam. Discussion of Islam in Africa prior to and during slavery, the early 20th century communities, rise of the Nation of Islam, orthodox Islam, and the influence of Islam on nationalism and artists.  
Note: Cross-listed with HUM 349.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 350. African-American Women in Theatre - AH, D1, WR  
Term Typically Offered: Fall Only  
Description: This course will explore the theatrical representation of African-American women through the lens of African-American playwrights, designers and theoreticians. Course content will focus on the works of African-American women playwrights, designers and theoreticians and encourage critical discourse on the material covered. Assignments and activities will include Script Analysis, Discussion Board posts, Research Papers, and Quizzes. Assignments are designed to strengthen critical thinking skills, encourage perspective broadening dialogue and research, and enhance your understanding of the experience of the African Diaspora. (Humanities)  
Note: Cross-listed with TA 363 and WGST 380.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 351. Survey of African Religion and Culture  
Term Typically Offered: Fall Only  
Description: This course discusses various African understandings of religion by examining specific traditions, beliefs, and practices from Ancient Egyptians, Yoruba, Dogon, and Dagara, among others. Christianity and Islam are discussed as unique parts of the African religious experience. (Humanities)  
Note: Cross-listed with HUM 351.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 352. Acting the Black Experience - AH, D1  
Term Typically Offered: Fall Only  
Description: Fundamental approaches to performance developed through improvisation, call and response, rhythm and movement styles that are drawn from the black experience in America.  
Note: Cross-listed with TA 322.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 353. Cultural Diversity in Performance - AH, D1  
Term Typically Offered: Spring Only  
Description: Performance and discussion of selected public and private texts written by American minority writers. Course explores what it means to be part of a culturally diverse society.  
Note: Cross-listed with TA 326.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 354. History of the African-American Theatre - AH, D1, WR  
Term Typically Offered: Fall Only  
Description: This course will introduce students to the historical, political, and cultural milieu experienced by African Americans and their impact on theatrical expression in theatre and performance.  
Note: Cross-listed with TA 366.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 355. Folklore of the African Diaspora  
Term Typically Offered: Occasionally Offered  
Description: Examination of the folk culture, customs, and beliefs that emerged when Africans settled in the Western Hemisphere. (Social Sciences)  
Note: Cross-listed with ANTH 343.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 356. Civil Rights and the Law I  
Term Typically Offered: Spring Only  
Description: An examination of the legal and political aspects of Black civil rights from Reconstruction to World War II. (Social Sciences)  
Note: Cross-listed with POLS 320.

For class offerings for a specific term, refer to the Schedule of Classes.
PAS 364. Racism and Sexism - D1, SB  
Term Typically Offered: Summer Only  
Description: The impact of racism and sexism on marginally-oppressed communities, as well as their strategies of resistance. (Social Sciences)  
Note: Cross-listed with WGST 347.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 366. Inequality and Health: The Black Experience  
Term Typically Offered: Occasionally Offered  
Description: Comparison of health care delivery systems in Africa and the U.S., focusing on those factors that determine accessibility, health financing and alternatives to public health systems in both contexts. (Social Sciences)  
Note: For class offerings for a specific term, refer to the Schedule of Classes.

PAS 367. Black Dramatic Literature - AH, D1  
Term Typically Offered: Spring Only  
Description: Description: The primary goal of this course is to accomplish in-depth analyses of selected plays by black dramatists.  
Note: Cross-listed with TA 367.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 368. Race, Culture, Identity  
Term Typically Offered: Occasionally Offered  
Description: A cross-cultural examination of racial categories over the last 200 years and their link to gender, political and social trends, ethnicity and nationalism. (Social Sciences)  
Note: Cross-listed with ANTH 310.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 369. Music and the Black Arts Movement  
Description: African-American artists during the Black Arts Movement of the mid-1960's through mid-1970's. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes.

PAS 370. Hip-Hop Culture and its Impact  
Term Typically Offered: Occasionally Offered  
Description: Key issues in the academic study of hip-hop and exploration of significant themes in the genre's history and production. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes.

PAS 371. Music of the Global Black Revolt  
Description: Examination of the international impact and interrelationships of several forms of black music during the three decades after World War II. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes.

PAS 372. Black Music and Identity in the 1960s  
Term Typically Offered: Occasionally Offered  
Description: Examination of African-American artists’ attempts in the 1960s and 1970s to produce art that would educate, inspire, and help liberate black people from white supremacist thought and practice. (Humanities)  
For class offerings for a specific term, refer to the Schedule of Classes.

PAS 374. The Black Power Movement  
Term Typically Offered: Occasionally Offered  
Description: Examination of the phase of the African-American freedom struggle known as the Black Power Movement, spanning the mid-1960s through the 1970s. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes.

PAS 378. The African-American Experience  
Term Typically Offered: Occasionally Offered  
Description: An examination of the African-American experience as depicted in literary and artistic genres. (Humanities)  
Note: Cross-listed with HUM 378.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 380. African Art: A Survey  
Term Typically Offered: Fall Only  
Description: Examination of African art from the Paleolithic era to contemporary times. Relationship between classical Egyptian art and sub-Saharan art forms. (Humanities)  
Note: Cross-listed with ARTH 341.  
Note: May be used to satisfy the Period 3 - Non-Western requirements.

For class offerings for a specific term, refer to the Schedule of Classes.

PAS 383. Cultures of Africa - D2, SB  
Term Typically Offered: Fall, Spring  
Description: This course provides an introduction to the ethnography of postcolonial cultures in sub-Saharan Africa. We will examine cultural, historical, political, and socio-economic factors that shape life in several countries, specifically exploring the complexity and diversity of everyday life in urban areas. The course will be centered upon a series of ethnographic readings, films, and case studies meant to introduce students to the diversity of social worlds and experiences across this broad region. We will focus on a series of core concepts and topics across the semester, including post-coloniality, development and economics, globalization, migration and mobility, activism and politics, informality, and urban space.  
Note: Cross-listed with ANTH 323.

For class offerings for a specific term, refer to the Schedule of Classes.
PAS 384. Disease, Ecology and Environmental Management in Africa - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Relationship between disease agents, and human and physical environment in Africa. Impact of urbanization, industrial pollution and multinational corporations on disease causation and distribution. (Social Sciences)
Note: Cross-listed with GEOG 362.
Note: Approved for the Arts and Sciences upper level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 385. Women in Africa: Historical and Literary Perspective 3 Units
Description: Survey of the role of women in historical African societies, women under colonialism, in nationalist movements, and in modern African countries. Literature about and by women will be considered. Emphasis on African/female perspective. (Humanities)
Note: Cross-listed with WGST 346.
Note: A prior course in PAS or WGST is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 386. Africa: Environment and Resources 3 Units
Description: Natural and human potentials of the African continent, with particular reference to Sub-Saharan Africa. Exploration of social, cultural, economic and political factors influencing use of African resources. Emphasis on factors degrading the environment and constraining optimum use of natural and human resources. (Social Science)
Note: Cross-listed with GEOG 314.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 390. Independent Study 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Overall average of 3.0, and average of 3.5 in the department, and at least 18 semester hours credit in the department.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 392. Faces of Global Poverty - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Persistent poverty in the Third World and specific groups in the U.S. Focuses on causes, consequences, solutions and survival strategies. (Social Sciences)
Note: Cross-listed with WGST 343/SOC 392.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 393. African History Before 1800 - D2, SBH 3 Units
Term Typically Offered: Spring Even Years
Description: This course examines the development of African civilizations and societies across the African continent from early man up until 1800. Special emphasis will be on the establishment of precolonial states and kingdoms, examinations of African lifestyles and traditions, the role of religion and trade throughout African history, and the impact of trans-African slavery on the African continent.
Note: 3-6 hours of HIST or PAS is recommended prior to taking this course.
Note: Cross-listed with HIST 393.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 394. African History Since 1800 - D2, SBH 3 Units
Term Typically Offered: Spring Odd Years
Description: Development of African societies and culture since 1800, including the abolition of trans-Atlantic slavery, colonization, independence movements, Pan-Africanism, and the challenges and successes of African societies in the recent past.
Note: Cross-listed with HIST 394.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 395. Contemporary Africa 3 Units
Description: Continental issues since independence, including such topics as apartheid, liberation movements, military regimes, African socialism, modernization, neocolonialism, cultural trends. (Social Sciences)
Note: Cross-listed with HIST 395.
Note: Junior standing is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 396. History of the Caribbean 3 Units
Description: Unified examination of the history of the Caribbean region from 1492 to the present, focusing on political economy, race relations and the region's relations with Europe and the Americas. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 407. Theoretical Perspectives in African-American and Diaspora Studies 3 Units
Description: An upper-level undergraduate course that surveys the black intellectual tradition of the discipline of Pan-African Studies. Students will examine theoretical perspective in Black Studies and be exposed to theories of literature, sexuality and popular culture. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### PAS 408. Research Methods in Pan-African Studies - WR  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** 12 credit hours in PAS above the 200 level.  
**Description:** The course introduces students to various methods of data collection. Students will learn how to conceive, design, and carry out their own social research. (Social Sciences)  
**Note:** Can be taken in conjunction with PAS 586.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 409. Pan-African Studies Capstone Seminar - CUE  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** PAS 408.  
**Description:** The Pan-African Studies Capstone seminar permits students to integrate general and specialized knowledge within the three Black Studies subfields (Historical, Social, Cultural Studies), with a particular focus on research and professional engagement. The course will include classroom discussions of seminal readings in the field, the completion of a research project and a professional seminar geared to assist in achieving further academic and career endeavors.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 410. Black Feminism in Action  
**Term Typically Offered:** Fall Only  
**Description:** The course examines the evolution of the Black Feminist consciousness in the U.S. from the 1830s to the present. (Social Sciences).  
**Note:** Cross-listed with WGST 410.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 412. The Underground Railroad and American Memory  
**Term Typically Offered:** Occasionally Offered  
**Description:** The course examines the need for and operation of national and International Underground Railroad and abolition movements. (Social Sciences)  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 499. PAS Senior Honors Theses - CUE, WR  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** PAS major/minor with a minimum of 15 hours in discipline; senior standing; 3.0 GPA overall and 3.5 GPA in major/minor; approved by department.  
**Description:** An intensive examination of scholarly study within an area of Pan-African studies involving primary and secondary research, which serves to synthesize knowledge acquired over the course of the students undergraduate career (including coursework, study abroad, internships, and research assistantships where applicable).  
**Note:** All honors thesis projects must be designed and completed under the supervision of a thesis supervisor.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 500. Cooperative Internship in Pan-African Studies  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** 12 hours PAS above introductory level.  
**Description:** Assignment with a public agency or organization. Written report and periodic consultation with a professor may be required.  
**Note:** May be repeated for credit but only 3 hours apply towards major or minor.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 505. The Black Atlantic  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** 12 hours PAS above introductory level.  
**Description:** Examination of the intercultural and transnational linkage of Africans in England, North and South America, the Caribbean and the African continent. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 506. Service Learning  
**Term Typically Offered:** Occasionally Offered  
**Description:** Placement of students in nonprofit organizations in the Louisville metropolitan region to provide research or programmatic assistance to local community groups. Written reports and frequent consultation with a professor may be required.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### PAS 508. Independent Study  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Overall GPA of 3.0, a GPA of 3.5 in the department and at least 18 semester hours credit in the department.  
**Description:** Independent study on a topic related to the African Diaspora.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 509. Advanced Contemporary Trends in African-American Art 3 Units
Prerequisite(s): 300-level Art History course.
Description: Survey of contemporary African-American art since the
1960s into current trends today. Examination of contemporary paintings,
sculpture, fabric art, folk art, public art, and installation art. (Humanities)
Note: Undergraduate credit may not be earned for this course and
PAS 308 or ARTH 349.
Note: Cross-listed with ARTH 549.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 510. Advanced Topics in Afro-American and African Studies 3 Units
Description: Advanced study of a particular topic, issue or area in African-
American culture or history, to be announced in Schedule of Courses.
Note: May be repeated as topics vary, but no more than six hours will be
accepted in the major.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 513. U.S. Social Justice Movements 3 Units
Prerequisite(s): Junior-level standing.
Description: Course will begin with abolitionism, then concentrate on
social justice upsurges of the 20th century, with emphasis on women in
the civil rights and Black liberation movements. (Social Sciences)
Note: Cross-listed with WGST 513, HIST 513, and SCHG 513.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 514. History of Pan-African Social Thought 3 Units
Prerequisite(s): Consent of instructor.
Description: Contributions of African and African-American social
theorists from Marcus Garvey to Cornell West, role of ideology in relations
of domination and oppression. (Social Sciences)
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 516. African-American Philosophy 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHIL 205 or PHIL 303 or PHIL 304.
Description: Analysis of works and theories of major recent and
contemporary African-American philosophers within the themes of Pan-
African debates. (Humanities).
Note: Cross-listed with PHIL 516.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 520. The Black Family - WR 3 Units
Prerequisite(s): Senior standing.
Description: Nature and function of African-American familial systems
from the slave era to the present. Emphasis on impact of public policy
on socioeconomic and political status of Black family structures. (Social
Sciences)
Note: Approved for the Arts and Sciences upper-level requirement in
written communication (WR).

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 521. Religions of the African Diaspora 3 Units
Term Typically Offered: Occasionally Offered
Description: Exploration of religious practices of the African World:
Yoruba, Santeria, Vodun/Voodoo, Rastafarianism, Gullah with an
emphasis on their African and syncretic names. (Humanities)
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 526. Black Heritage Preservation 3 Units
Description: An introduction to the interpretive, legal, social and
political aspects of historical preservation with a focus on the Black
experience, preservation laws, and the power of public memory. An
introduction to local, state, and national agencies responsible for site
designation, oversight and protection of historical sites and legacies, as
well as research and documentation necessary to obtain historical site
designations. (Social Sciences)
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 527. Underground Railroad in the Diaspora 3 Units
Term Typically Offered: Occasionally Offered
Description: Applied research on the people, events, causes, and
methods employed in creating, sustaining and operating a national and
international Underground Railroad movement. (Social Sciences)
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)

PAS 529. Teacher Institute on African-American Issues 3 Units
Description: An introduction to Pan-African Studies focusing on
multicultural educational strategies for public school educators. (Social
Sciences)
Note: Cross-listed with EDAP 590.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/ setupSearchClassSchedule.cfm)
PAS 530. The Life and Times of Malcolm X 3 Units  
Prerequisite(s): Senior standing.  
Description: An examination of the career of Malcolm X that engages the intersections of his political thought and public advocacy work with broader trends in United States and world affairs including colonialism and decolonization, the U.S. civil rights movement, and Black Arts and Black Power movements. The course critically examines his ideas about culture, history, and identity, and analyzes the use to which the figure of Malcolm X is put in the United States' popular culture and historical discourses. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 531. Survey of African-American History and Culture for Teachers 3 Units  
Description: An intensive survey of the history and culture of African Americans for teachers. (Social Sciences)  
Note: Cross-listed with EDAP 592.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 532. Slave Trade and Slavery in the African World 3 Units  
Prerequisite(s): Senior or graduate standing.  
Description: An in-depth examination of the evolution and characteristics in the western world, the mechanics and organization of the African slave trade, the nature and types of slave societies established in Europe and the Americas, and the impact of slave trade in Africa. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 533. The History and Popular Culture of the African Diaspora 3 Units  
Prerequisite(s): Senior or graduate standing.  
Description: An intensive, comparative examination of selected topics linking the history and culture of persons of African ancestry in the United States, the Caribbean region, Latin America and Africa. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 535. History of African Americans in Kentucky 3 Units  
Prerequisite(s): Senior standing or faculty consent.  
Description: The history of African Americans in Kentucky from the settlement of the trans-Appalachian region to the present. Special attention to the history of African Americans in Louisville and Jefferson County. The use of primary, secondary, and oral historical sources will be emphasized. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 539. Public History in African Diaspora 3 Units  
Description: Key issues, primary and secondary sources, and research methods for studying the experiences of persons of African ancestry in the Caribbean, Europe, Latin America, and Brazil. Examination of the challenges and strategies related to interpreting and preserving the Diasporic experience at historic sites, in museums and other public settings. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 540. Pedagogy of African Studies 3 Units  
Description: Designed for teachers preparing to introduce African Studies materials to primary and secondary school students. (Social Sciences)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 541. Cultural Heritage, Tourism, and Globalization 3 Units  
Description: This course is designed to familiarize you with the anthropological literature on the origins, nature, and character of tourism. It will analyze the way cultural heritage sites become contested spaces, representative of memory, nationhood, history, and culture with particular emphasis on Jewish history and culture in Europe and African Americans in the U.S. (Social Sciences)  
Note: Cross-listed with ANTH 532.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 542. Black Women's Voices - WR 3 Units  
Prerequisite(s): At least 6 (six) credit hours in SS or HU or consent from faculty.  
Description: Global synopsis of black women’s studies and social thoughts. Highlights roadblocks and bridges experienced. Captures race, gender, class and spatial dimensions. (Social Sciences)  
Note: Cross-listed with WGST 543.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
Note: Credit may not be earned for both PAS 542/WGST 543 and PAS 643/WGST 643.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 545. Southern Women: Black and White 3 Units  
Term Typically Offered: Occasionally Offered  
Description: Course focuses on questions of identity for southern women, black and white, by contrasting stereotypes and ideals with realities for these women in the slave, Jim Crow, and modern south. (Social Sciences)  
Note: Cross-listed with WGST 545.  
Note: Credit may not be earned for this course and PAS 645 or WGST 645.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 546. African Languages in the Diaspora 3 Units  
Prerequisite(s): Junior standing.  
Description: Course investigates the intersections of linguistic behavior from the perspective of the global African Diaspora. Explores the many manifestations of African and other linguistic influences as seen through an analysis of various media. (Humanities)  
Note: Credit may not be earned for this course and PAS 346.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Course Description</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAS 547</td>
<td>Language, Race, Class and Gender</td>
<td>3</td>
<td>Course investigates the intersections of linguistic behavior with questions of race, class and gender. Students will gain an understanding of the multiple characteristics of communication. (Humanities)</td>
<td>Junior standing.</td>
<td></td>
<td>Credit may not be earned for this course and WGST 547.</td>
</tr>
<tr>
<td>PAS 548</td>
<td>Black Museums and Cultural Heritage</td>
<td>3</td>
<td>Examination of historical and cultural dimensions of museums and heritage sites in Africa and Africa Diaspora. Representation of Africana ethnic groups depicted in museum setting and public culture. (Social Sciences)</td>
<td>6 credit hours completed in Anthropology or Pan African Studies.</td>
<td></td>
<td>Cross-listed with WGST 547.</td>
</tr>
<tr>
<td>PAS 549</td>
<td>African Americans in Louisville, Kentucky</td>
<td>3</td>
<td>In-depth examination of the history of African Americans in Louisville, Kentucky, from the settlement of the trans-Appalachian west to the present. Through the use of primary, secondary and oral historical sources, the course will focus on the social, cultural, political and economic dimensions of African-American life in Kentucky's largest metropolitan area. (Social Sciences)</td>
<td>For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring</td>
<td>For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>PAS 550</td>
<td>African Popular Culture</td>
<td>3</td>
<td>Examination of the popular arts of Africa, focusing on the variety of aesthetic forms, performance styles, and the sociocultural and political contexts in which they are found. (Humanities)</td>
<td>For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
<td>Cross-listed with ENGL 105, or junior standing.</td>
</tr>
<tr>
<td>PAS 551</td>
<td>Studies in African-American Literature</td>
<td>3</td>
<td>In-depth study of selected movements, topics, or groupings of African-American writers. (Humanities)</td>
<td>ENGL 102 or ENGL 105 and junior standing.</td>
<td></td>
<td>Cross-listed with ENGL 550.</td>
</tr>
<tr>
<td>PAS 555</td>
<td>African Philosophy</td>
<td>3</td>
<td>Course investigates the intersections of linguistic behavior with questions of race, class and gender. Students will gain an understanding of the multiple characteristics of communication. (Humanities)</td>
<td>PHIL 301, or PHIL 302, or PHIL 303, or PHIL 304.</td>
<td>Occasionally Offered</td>
<td>Cross-listed with PHIL 557.</td>
</tr>
<tr>
<td>PAS 556</td>
<td>Race and Gender in Psychological Research</td>
<td>3</td>
<td>Critical review of psychology with respect to issues of race and gender. Examines theory and research paradigms, modern, postmodern and Afrocentric methodologies. (Social Sciences)</td>
<td>ENGL 102 or ENGL 105, and junior standing.</td>
<td></td>
<td>Cross-listed with PSYC 566.</td>
</tr>
<tr>
<td>PAS 557</td>
<td>Post-Colonial Voices: Writing &quot;Experience&quot; in African Literature - WR</td>
<td>3</td>
<td>In-depth study of the literature of the Harlem Renaissance in relation to other literary and artistic productions of the period and to cultural and historical contexts. (Humanities)</td>
<td>ENGL 102 or ENGL 105, and junior standing.</td>
<td></td>
<td>Cross-listed with ENGL 575.</td>
</tr>
<tr>
<td>PAS 558</td>
<td>The Harlem Renaissance</td>
<td>3</td>
<td>In-depth study of the literature of the Harlem Renaissance in relation to other literary and artistic productions of the period and to cultural and historical contexts. (Humanities)</td>
<td>ENGL 102 or ENGL 105, and junior standing.</td>
<td></td>
<td>Cross-listed with ENGL 577.</td>
</tr>
<tr>
<td>PAS 559</td>
<td>The Music of the Black Church</td>
<td>3</td>
<td>This course is designed for the upper division or graduate student in music or Pan-African studies and explores the historical and musical development of African-American sacred music from slavery to the present; from Spirituals to traditional and contemporary Gospel music. Special emphasis is given to the impact that this music has had on African-American culture in the United States, which represents a synthesis of African and European cultures into a unique hybrid with its own tradition of development.</td>
<td>Cross-listed with MUS 578.</td>
<td></td>
<td>Cross-listed with MUS 578.</td>
</tr>
</tbody>
</table>
PAS 581. Pan-African Art: Form and Content  
**Prerequisite(s):** Consent of instructor.  
**Description:** Similarities and differences in African-American folk art, Caribbean folk art and traditional African art. (Humanities)  
**Note:** Cross-listed with ARTH 544.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PAS 586. Field Research**  
**Prerequisite(s):** 12 hours PAS credit or consent of instructor.  
**Description:** On-site field study of a particular aspect of society in the African Diaspora.  
**Note:** Maximum of 6 credit hours, depending upon project.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PAS 590. Studies in African History - WR**  
**Prerequisite(s):** Junior standing or faculty consent.  
**Description:** Intensive study of a particular topic chosen by the instructor, for example, slavery and the slave trade, traditional kingdoms. (Social Sciences)  
**Note:** Cross-listed with HIST 590.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** Nine prior hours of HIST or PAS is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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**Paralegal Studies (PARA)**

**PARA 101. Legal Systems and the Paralegal**  
**Term Typically Offered:** Fall, Spring  
**Description:** Examination of state and national judicial systems and procedures, the role and responsibilities of paralegals in those systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 102. Legal Research and Writing**  
**Term Typically Offered:** Fall, Spring  
**Description:** Legal library system, research methods, case law analysis. Includes research and writing assignments.  
**Note:** May be taken concurrently with PARA 101.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 203. Advanced Legal Research and Writing**  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** Use of skills learned in PARA 102 to perform sophisticated research and draft complex legal documents.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 305. Family Law**  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** Procedural aspects of cases involving marriage, divorce, separation, child support, custody, guardianship, maintenance, and other related subjects.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 310. Torts for Paralegals**  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** Introduction to tort law, including examination and analysis of medical malpractice, products liability and personal injury law for the paralegal.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 320. Computers and the Law**  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** A practical introduction to the use of computers in the legal environment, with concentration on various computer applications for the legal professional and computerized legal research.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 325. Litigation**  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** Introduction to civil litigation, fact investigation, discovery techniques, interviewing, evidence, commencement of lawsuits and case management.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 326. Criminal Litigation**  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** An introduction to criminal litigation for the paralegal.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PARA 327. Evidence for Paralegals**  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
**Description:** The history, form, and substance of the rules of evidence, including a comparison of state and federal rules of evidence.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PARA 340. Business Associations and Transactions  
3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: Legal problems associated with transactions relating to proprietorships, partnerships, and corporations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 350. Wills, Estates and Trusts  
3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: Will writing, probate, tax preparation, asset management and distribution, estate planning and drafting, trust agreements and record keeping.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 360. Consumer Law  
3 Units  
Prerequisite(s): PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: Survey of consumer law such as truth-in-lending, credit opportunity, reporting and charges, warranties and product liability.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 370. Real Estate Law for Paralegals  
3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: Introduction to real property, title holding and abstracting, recording statutes, deeds, mortgages, settlements and closings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 390. Paralegal Internship  
3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): PARA 101, PARA 102, PARA 203; 9 credit hours of 300-level PARA courses; 2.75 GPA in PARA courses and 2.5 overall GPA.  
Description: One hundred and forty (140) hours of actual supervised practical experience in a legal setting.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 391. Topics in Paralegal Studies  
3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): PARA 101, PARA 102, 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: Topics to be announced in Schedule of Courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 395. Independent Study for Paralegals  
1-3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): PARA 101 and PARA 102, and 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: Study of specific, focused topic in paralegal studies with professor supervision.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PARA 399. Professional Ethics for Paralegals  
1 Unit  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Paralegal majors only; 2.75 GPA in PARA courses, and 2.5 overall GPA.  
Description: A study of ethical issues for paralegals, with emphasis on situations arising in the internship/work environment.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Peace, Justice and Conflict Transformation (PEAC)

PEAC 325. Peace, Justice & Conflict Transformation  
3 Units  
Term Typically Offered: Fall, Spring, Summer  
Description: Introduces fundamental issues within the broad realm of Peace Studies and deepens student skills in critical thinking, conflict analysis, and problem solving. Core issues: conflict analysis, non-violent action, violence prevention, warism, peacebuilding, and gender and peace. (Social Science)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PEAC 350. Mediation & Conflict Transformation  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: Basic skills include understanding the place and role of mediation as a conflict transformation tool; applying techniques for constructive negotiation; understanding sources of conflict and recognizing conflict management styles; gaining practical experience in conflict resolution techniques and skill building; understanding stages of mediation; acquiring listening and communication skills; understanding directive, facilitative, and transformative styles of mediation. (Social Science)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PEAC 375. Independent Study in Peace Studies  
1-3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): This section requires permission of the instructor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Philosophy (PHIL)

**PHIL 205. Introduction to Philosophy - AH**
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 101.
Description: Selected writings by important philosophers (e.g., Plato, Aristotle), illustrating their problems, methods, and conclusions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHIL 206. Introduction to Philosophy through Literature and Film - AH**
Term Typically Offered: Fall, Spring, Summer
Description: Study of central philosophical problems using literary and cinematic works, as well as traditional philosophical texts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHIL 207. Introduction to Philosophy through Cultural Diversity - AH, D2**
Term Typically Offered: Fall, Spring
Description: Survey of historical canonical contributions to western philosophy juxtaposed with minority voices to understand how social, economic, and cultural situatedness affect bodies of knowledge.
Note: Cross-listed with WGST 207 and PAS 207.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHIL 211. Critical Thinking - AH**
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to and practice in methods of critical thinking, including argument identification, construction and revision; assessment of evidence; and critique of reasoning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHIL 219. Sex and Values - AH, D1**
Term Typically Offered: Occasionally Offered
Description: Critical studies of the treatment of sex in various moral philosophies, including a survey of classical viewpoints, but emphasizing contemporary writings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHIL 220. Readings in Ethics**
Grading Basis: Pass/Fail
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of Department.
Description: Students in this course will develop and exercise their critical thinking capacity and knowledge of ethics as understood in western philosophy through exploring history, topics, and ways of thinking about ethics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Pharmacology and Toxicology (PHTX)

**PHTX 395. Basic Pharmacology**
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of Instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PEAC 525. Peace, Justice & Conflict Transformation**
Term Typically Offered: Occasionally Offered
Prerequisite(s): Graduate standing.
Description: Introduces fundamental issues within the broad realm of Peace Studies and deepens student skills in critical thinking, conflict analysis, and problem solving. Core issues: conflict analysis, non-violent action, violence prevention, warism, peacemaking, and gender and peace.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PEAC 545. Basic Mediation & Conflict Transformation**
Prerequisite(s): Graduate standing.
Description: Basic skills include understanding the place and role of mediation as a conflict resolution tool; applying techniques for constructive negotiation; understanding sources of conflict and recognizing conflict management styles; gaining practical experience in conflict resolution techniques and skill building; understanding stages of mediation; acquiring listening and communication skills; understanding directive, facilitative, and transformative styles of mediation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PEAC 550. Service Learning in Peacebuilding**
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PEAC 325 and PEAC 350.
Description: All students will complete service learning in peace-building after completing other requirements for certificate in Peace, Justice & Conflict Transformation. They will work within an approved organization whose focus is some aspect of peace, justice, or conflict transformation. The objective is for them to learn first hand how principles and theories studied in previous classes are applied in the field. (Social Science)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PEAC 575. Independent Study in Peace, Justice & Conflict Transformation**
Prerequisite(s): Minimum GPA of 3.0, or at least 45 semester hours credit, and permission of PJCT Director.
Description: Independent study is available to selected undergraduates or graduate students with a specific topic to focus upon that fits within the broad sphere of Peace, Justice & Conflict Transformation. Students will be supervised by either the director of the program or another individual appropriate for the selected topic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 222. Contemporary Ethical Problems - AH
Term Typically Offered: Fall, Spring, Summer
Description: Ethical aspects of current medical, legal, political, environmental and social problems and of the presuppositions contained in their various solutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 225. Business Ethics
Term Typically Offered: Fall, Spring, Summer
Description: Analysis of moral problems that arise in contemporary business practice and of the different ethical frameworks proposed to resolve them.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 301. Ancient Philosophy
Term Typically Offered: Fall Only
Description: Greek and Roman philosophy from the pre-Socratics through the neo-Platonists.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 302. Medieval Philosophy
Term Typically Offered: Spring Only
Description: European philosophy from Augustine to the Renaissance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 303. Modern Philosophy
Term Typically Offered: Spring Only
Description: European philosophy from the Renaissance through Kant.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 304. Recent Philosophy
Term Typically Offered: Occasionally Offered
Description: Developments in philosophy from Kant to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 305. Selected Topics
Term Typically Offered: Fall Only
Prerequisite(s): Junior standing or faculty consent; other prerequisites determined by the instructor, depending on topic.
Description: Examination of a selected topic in Philosophy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 306. Nineteenth-Century Philosophy
Term Typically Offered: Fall Only
Description: Major developments in European philosophy in the nineteenth century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 307. Twentieth-Century Philosophy
Term Typically Offered: Spring Only
Description: Major developments in European philosophy in the twentieth century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 308. Social and Political Philosophy
Term Typically Offered: Spring Odd Years
Prerequisite(s): Junior standing or faculty consent.
Description: Classical and contemporary philosophies of society and the state, individual in society, and social change. Philosophical analysis of such concepts as justice, revolution, freedom, and duty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 311. Introduction to Logic
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to formal and informal techniques of argument analysis, with emphasis on applications to ordinary language.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 315. Asian Philosophy - AH, D2
Term Typically Offered: Occasionally Offered
Description: This course explores a variety of philosophical questions as discussed in work by Indian, Chinese, and Japanese philosophers (as well as their commentators), including: What is real, what is the nature of things, what is the self? How do we know what we know? What is right, and what is wrong? What is human nature like, and how fixed is it? How should we live, especially in light of human morality?
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 317. The Nature of Violence
Term Typically Offered: Fall, Spring
Description: Analysis of concepts of violence and examination of causes, effects, and solutions to interpersonal and global forms of violence.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 318. Philosophy and Feminism - AH, D1
Term Typically Offered: Fall Only
Description: An examination of philosophical issues involved in feminism, including classical, but emphasizing contemporary discussions.
Note: Cross-listed with WGST 360.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 319. Philosophy of Race and Racism - AH, D1
Term Typically Offered: Spring, Summer
Description: A critical examination of philosophical issues involved in interdisciplinary inquires into race and racism.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 320. Death
Description: Critical studies of the treatment of death in major philosophies, including a survey of classical viewpoints, but emphasizing contemporary writings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 321. Ethics
Term Typically Offered: Fall, Spring, Summer
Description: Main theoretical frameworks for systematically addressing questions about moral obligation and the good life. Additional topics may include responsibility, virtue, justice, law and morality, relativism, evil, and reasons to be moral.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 322. Medical Ethics
Term Typically Offered: Fall, Spring, Summer
Description: Analysis of codes of ethics and concepts of ethical practice in medicine; historical developments, contemporary problems, and case studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 328. Environmental Ethics
Term Typically Offered: Fall Odd Years
Description: Examination of the moral status of the natural environment and ethical problems of human/environment interaction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 330. Introduction to Applied Philosophy
Term Typically Offered: Occasionally Offered
Prerequisite(s): One course in Philosophy or consent of instructor.
Description: Introduction to philosophical research and reasoning about individual or collective behavior in institutions, communities, or professions. Special attention to the application of normative concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 331. Philosophy of the Arts
Term Typically Offered: Fall, Spring
Description: The nature of art, appreciation, and criticism, with emphasis on contemporary discussions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 341. Philosophy of Language - WR
Term Typically Offered: Fall Only
Description: Philosophical problems concerning language, such as meaning, use, reference, private language, and their interrelation.
Note: Cross-listed with LING 341.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 345. Philosophy of Religion
Term Typically Offered: Fall, Spring
Description: Problems concerning religious knowledge, the existence and nature of God, and human destiny.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 350. Philosophy of Law
Term Typically Offered: Occasionally Offered
Description: Theory of law and philosophical problems arising from the existence and practice of law as developed in the major philosophical traditions in the West.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 356. Metaphysics - WR
Term Typically Offered: Fall, Spring
Prerequisite(s): Two courses in philosophy or faculty consent.
Description: Study of such fundamental concepts as being, essence, existence, substance, process, change, space, time, eternity, matter, mind, self, value, and cause.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 357. Personal Identity and the Self
Term Typically Offered: Occasionally Offered
Description: Philosophical analysis of metaphysical, existential, social and postmodern concepts of personal identity, drawing from classical and contemporary sources.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 385. Introduction to Existentialism
Term Typically Offered: Occasionally Offered
Description: A broad survey of existential thought as expressed in philosophical and literary sources.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 398. Senior Honors Seminar
Prerequisite(s): Junior standing; admission to department Honors Program.
Description: Seminar devoted to the intensive investigation of a major substantive or theoretical area within the field of philosophy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 399. Senior Honors Seminar - WR  3 Units
Term Typically Offered: Spring, Summer
Prerequisite(s): Junior standing; admission to department Honors Program.
Description: Seminar devoted to the intensive investigation of a major substantive or theoretical area within the field of philosophy.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 412. Symbolic Logic  3 Units
Term Typically Offered: Occasionally Offered
Description: Semantic and syntactic methods for first-order propositional and predicate logic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 499. Senior Honors Thesis - WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior standing; admission to department Honors Program.
Description: An intensive study of a topical area in philosophy undertaken with a designated faculty director.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 501. Independent Study  1-3 Units
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 502. Philosophy Capstone Seminar - CUE  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): 24 hours of PHIL courses; major in Philosophy.
Description: Seminar with variable content consisting in sustained and rigorous primary philosophical study and reflection; required of all philosophy majors as close to graduation as feasible.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 505. Selected Topics  3 Units
Prerequisite(s): To be determined by instructor, in the light of the topic chosen for that semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 512. Advanced Symbolic Logic  3 Units
Prerequisite(s): PHIL 412 or consent of instructor.
Description: Topics in the theory and application of modern logic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 516. African-American Philosophy  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHIL 205 or PHIL 303 or PHIL 304.
Description: Analysis of works and theories of major recent and contemporary African-American philosophers within the themes of Pan-African debates.
Note: Cross-listed with PAS 516.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 518. Feminist Philosophical Literature  3 Units
Prerequisite(s): Junior standing.
Description: Examination of central works by feminist philosophers in such subdisciplines as ethics, political philosophy, and epistemology.
Note: Cross-listed with WGST 560.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 519. Topics in Philosophy of Race and Racism  3 Units
Description: Focused examination of philosophical issues involved in interdisciplinary inquiries into the nature and functioning of race and racism.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 521. Ethical Theory - WR  3 Units
Prerequisite(s): One course in ethics or consent of instructor.
Description: Recent developments in ethical theory, such as examinations of the status of moral facts; moral realism; impartiality and personal attachments; or moral agency.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 522. Virtue Ethics - WR  3 Units
Prerequisite(s): Two courses in Philosophy or consent of instructor.
Description: Historical and contemporary approaches to ethics that emphasize virtue and character.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 523. Selected Topics in Applied Philosophy  
3 Units  
Prerequisite(s): One course in Philosophy or consent of instructor.  
Description: Intensive study of one or more philosophical problems of individual or collective behavior in institutions, professions, or community affairs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 524. Philosophies of Peace  
3 Units  
Prerequisite(s):  
Description: History of peace movements; analysis of concepts of nonviolence, pacifism, positive and negative peace; approaches to conflict resolution and negotiation for global and local conflicts. Multi-disciplinary.  
Note: Credit may not be earned for both PHIL 524 and PHIL 624.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 528. Philosophy of Mind  
3 Units  
Prerequisite(s): Two semesters of philosophy or consent of instructor.  
Description: Philosophical analysis of contemporary theories about the mind.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 529. Philosophy of Emotions  
3 Units  
Prerequisite(s): One course in philosophy or consent of instructor.  
Description: Philosophical studies in the nature, interrelations, and moral and aesthetic value of specific emotions, such as pride, shame, guilt, regret; jealousy, envy, resentment, anger, hate, contempt, love, joy, happiness, contentment.  
Note: Cross-listed with PHIL 629.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 531. Aesthetics  
3 Units  
Description: An examination of philosophical theories of art, works of art, creative activity, and aesthetic experience, from Plato to the present.  
Note: Credit may not be earned for both PHIL 531 and PHIL 631.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 535. Political Philosophy  
3 Units  
Prerequisite(s): Two courses in philosophy and/or political science.  
Description: The main concepts of contemporary political thought: rights, law, power, ideology, legitimacy, democracy, tyranny, the state, and justice, with the focus on the topic of political action in both its individual and collective forms.  
Note: Credit may not be earned for both PHIL 535 and PHIL 635.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 536. Philosophy of Science  
3 Units  
Prerequisite(s): Two courses in philosophy and two courses in biology, chemistry, physics, or geology or consent of instructor.  
Description: Philosophical problems connected with scientific explanation, laws, theories, concepts, goals and methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 537. Philosophy of the Social Sciences  
3 Units  
Prerequisite(s): One philosophy course and one upper-level course in political science, psychology, sociology, anthropology, economics, or geography; or consent of instructor.  
Description: Critical analysis of methodological, valuational, and metaphysical problems in the social sciences.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 538. Critical Social Theory  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: A critical examination of interdisciplinary theories that seek to understand and explain social formations while at the same time uncovering ways that such formations can be unjust and irrational.  
Note: Cross-listed with SCHG 538.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 540. Epistemology - WR  
3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Junior standing or consent of instructor.  
Description: Conceptual and historical background to analysis of knowledge claims; intensive study of theoretical approaches to knowledge, such as naturalized epistemology; socialized epistemology, feminist epistemology, postmodern critiques of normative conceptions of knowledge.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Credit may not be earned for both PHIL 540 and PHIL 640.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 553. Plato and Platonism  
3 Units  
Prerequisite(s): PHIL 301 or consent of instructor.  
Description: Plato's dialogues, and the course of Platonist thought through Plotinus and the Christian philosophers, to modern times.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHIL 554. Aristotle and Aristotelianism  
3 Units  
Prerequisite(s): PHIL 301 or consent of instructor.  
Description: Aristotle's basic works and their influence on St. Thomas Aquinas and others in the Middle Ages.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 557. African Philosophy  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): PHIL 304, or PHIL 302, or PHIL 303, or PHIL 301.  
Description: Descriptive and analytical introduction to the ideas and themes in African philosophy through careful readings of texts which address a cluster of topics.  
Note: Cross-listed with PAS 557.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 572. Phenomenology  
Prerequisite(s): PHIL 303 or consent of instructor.  
Description: The development of the phenomenological method and its use from Husserl to the present.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 573. Existentialism  
Prerequisite(s): Two semesters of philosophy or consent of instructor.  
Description: The thought of Kierkegaard, Nietzsche, Heidegger, Jaspers, Sartre, Marcel, and others, and its significance.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 575. Postmodernism  
Description: Multidisciplinary examination of challenges to ideals, norms, and beliefs of modernity, and identifying characteristics of postmodern thought, as they appear in various disciplines and in cultures.  
Note: Credit may not be earned for both PHIL 575 and PHIL 675.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 580. Foundations of Bioethics  
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.  
Description: Grounding in the major theories and methods of bioethical decision-making, including contemporary controversies about the role of theory, principles, cases, narrative, and virtues.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 581. Current Controversies in Health Care Ethics  
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.  
Description: Topics in health care ethics currently attracting the most attention in both professional and public discussions. A variety of viewpoints on these topics will be considered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 582. Gender, Race, and Culture in Health Care  
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.  
Description: Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.  
Note: Cross-listed with WGST 582.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 583. Health Care, Justice & Community  
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.  
Description: Examines theories of justice and equality as they apply to issues in health care delivery, considers explanations for why disparities exist, and the practical ways that communities have addressed inequalities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 590. Fundamentals of Diversity  
Term Typically Offered: Occasionally Offered  
Description: This course will provide an overview of the theory and practice of diversity. Diversity is understood as the many sociocultural differences between individuals and the differences that those differences make for those individuals. In this course, we will explore the historical context of oppression, the oppression framework for understanding diversity, privilege, social identity, the role of the body in diversity, stereotypes, and the personal experiences of both those who are oppressed and those who are privileged. Students will also have a substantial opportunity to examine how these general themes impact their particular area of study, work, or interest.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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Term Typically Offered: Occasionally Offered  
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For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PPE 300. Introduction to Philosophy, Politics, and Economics (PPE)  
Term Typically Offered: Fall Only  
Description: This course introduces students to the interdisciplinary study of Philosophy, Politics, and Economics. Taken together these subjects enable a rigorous yet applied study of society and social institutions such as governments, markets, and firms, and civil society more generally.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PPE 499. Selected Readings in Philosophy, Politics, and Economics 3 Units
Term Typically Offered: Spring Only
Description: This capstone course enables students, through guided discussion, to read and understand major historical and contemporary works in Philosophy, Politics, and Economics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Physics and Astronomy (PHYS)

PHYS 107. Elementary Astronomy - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to the basic laws of nature as seen in the large-scale structure of the universe: galaxies, stars and our solar system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 108. Elementary Astronomy Laboratory - SL 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Concurrent or prior registration in PHYS 107.
Description: Experiments in astronomy illustrating basic physical concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 111. Elements of Physics - B 4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Appropriate Math placement.
Description: An introduction to the physics of mechanics, forces, energy and momentum. Electricity and magnetism: electrical conduction, and magnets. Optics: color, mirrors, and lenses. Basic ideas and concepts of quantum physics.
Note: May not be taken by student who has completed 5 or more hours in Physics at the 200-level.
Note: Not acceptable toward a Physics major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 219. Contemporary Issues in Meteorology Lab - SL 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Concurrent enrollment in GEOS 220/PHYS 220.
Description: A lab designed to provide real-world examples of atmospheric processes through analysis and problem solving using basic concepts and physical principles relevant to the atmosphere.
Note: Cross-listed with GEOS 219.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 220. Contemporary Issues in Meteorology - S 3 Units
Term Typically Offered: Fall, Spring
Description: Contemporary issues serve as an introduction to the physical basis, distribution and consequences of global-scale meteorological phenomena.
Note: Cross-listed with GEOS 220.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 221. Fundamentals of Physics I - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 221 or its equivalent.
Description: Basic concepts and methods of physics as applied in the study of mechanics, heat and sound.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 222. Fundamentals of Physics II - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 221 (or concurrently).
Description: Experiments in electricity, magnetism, optics and modern physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 223. Fundamentals of Physics Lab I - SL 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 221 (or concurrently).
Description: Experiments in mechanics, heat and sound.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 224. Fundamentals of Physics Laboratory II - SL 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 222 (or concurrently).
Description: Experiments in electricity, magnetism, and light.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 295. Introductory Laboratories I - SL 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 298 (or concurrently).
Description: Experiments in mechanics and heat.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 296. Introductory Laboratories II - SL 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 299 (or concurrently).
Description: Experiments in electricity, magnetism, and light.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHYS 298. Introductory Mechanics, Heat and Sound - S 4 Units
Term Typically Offered: Fall, Spring, Summer
Description: Basic methods of physics with calculus applied to topics in mechanics, heat and wave motion.
Prerequisite(s): MATH 205 (or concurrently).
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 299. Introductory Electricity, Magnetism and Light 4 Units
Term Typically Offered: Fall, Spring, Summer
Description: Basic methods of physics with calculus applied to topics in electricity, magnetism and light.
Prerequisite(s): PHYS 298.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 300. Introductory Modern Physics 3 Units
Term Typically Offered: Fall, Spring
Description: Introduction to special relativity and quantum theory, with applications to atomic, nuclear, and solid state physics.
Prerequisite(s): PHYS 299; physics majors should take PHYS 301 concurrently.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 301. Introductory Modern Physics Laboratory 1 Unit
Term Typically Offered: Fall Only
Description: Experiments in modern physics.
Prerequisite(s): PHYS 300 (or concurrently).
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 307. Introductory Stellar Astrophysics 3 Units
Term Typically Offered: Fall Only
Description: A calculus-based introduction to the physics of the solar system, and stars, covering celestial mechanics, tides, the nature of light, star and planet formation and evolution.
Prerequisite(s): PHYS 298, PHYS 299, MATH 205, and MATH 206 required; PHYS 300 recommended.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 308. Observational Astronomy 1 Unit
Term Typically Offered: Fall Only
Description: Optical astronomy including observing at Moore Observatory, solar observing, instrumentation control with computers, and astronomical data acquisition and interpretation.
Prerequisite(s): PHYS 221 and PHYS 222, or PHYS 298 and PHYS 299, or equivalent.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 350. Differential Equations for the Physical Sciences 4 Units
Term Typically Offered: Fall Only
Prerequisite(s): MATH 206 or permission of instructor.
Description: Topics include methods of solution of differential equations, and simple modeling of phenomena using differential equations.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 351. Atomic and Nuclear Physics Laboratory 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 300.
Description: Experimental procedures in atomic and nuclear physics.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 355. Optics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 299.
Description: Introduction to wave theory of light and relation between light waves and rays; theory of thick lenses and lens aberrations; interference and diffraction of coherent light.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 356. Optics Laboratory 2 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 299.
Description: Laboratory experiments illustrating the reflection, refraction, interference, diffraction, and polarization of light.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 360. Introduction to Weather Analysis 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MATH 205.
Description: A study of day-to-day weather patterns with an emphasis on understanding the basics of meteorological processes, forecast preparation, and mastery of manual data analysis. Topics covered will include manual construction of weather maps, interpreting observations, an introduction to physics of meteorological processes and the structure of circulation patterns.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 361. Atmospheric Thermodynamics 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 206 with a C or better, or an ACT Math score of 24, or a SAT Math score of 550; and MATH 301 (or concurrently).
Description: An introduction to the principles of thermodynamics and their applications to atmospheric structure and dynamics. Includes the study of relationships among pressure, temperature, density, internal energy, entropy, atmospheric interaction with gravity, and the central role of water in atmospheric dynamics.
For class offerings for a specific term, refer to the Schedule of Classes.
PHYS 362. Physical Meteorology  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 361.
Description: An introduction to the application of physics to atmospheric structure and dynamics. Includes cloud formation, and the effects of planetary rotation on large-scale atmospheric motion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 365. Mesoscale Meteorology  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 360.
Description: Introduction to mesoscale processes, with an emphasis on convective storms and severe weather, and the techniques used for the study and prediction of such events.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 371. Special Topics  3 Units
Prerequisite(s): Faculty consent.
Description: Exploration of intermediate level of some well-defined topic not treated comprehensively in a regular course.
Note: Topic announced in Schedule of Courses.

PHYS 390. Introductory Computational Physics  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 300 and MATH 301.
Description: Introduction to the Unix/Linux operating system and the use of contemporary programming languages with applications to physics, including basic numerical methods, simulations, and data manipulation. Introduction to scientific software packages including data visualization.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 403. Practicum in Physics Education - CUE  1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Completion of PHYS 300 and PHYS 460; PHYS majors only; permission to enroll required; minimum 3.0 GPA in major to be eligible.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes field experience as an undergraduate teaching assistant.
Note: May be repeated for a maximum of 3 credit hours.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

PHYS 450. Introductory Mathematical Physics  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 350 and MATH 301.
Description: Introduction to mathematical methods and concepts used in physics. Topics include: vector calculus, matrices and linear vector spaces, special functions and partial differential equations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 460. Mechanics  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PHYS 298 and PHYS 350.
Description: Kinematics, particle dynamics, oscillatory motion, central forces, rigid body motion, variation methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 465. Dynamic Meteorology I  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 361.
Description: An introduction to the theory of atmospheric dynamics with application of Newtonian physics and classical thermodynamics to geophysical fluid dynamics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 466. Dynamic Meteorology II  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 465.
Description: This is the second semester in the theory of atmospheric dynamics and dynamic meteorology. Topics may include shear instability, atmospheric waves, moist convection, and weather fluctuation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 469. Synoptic Meteorology - CUE  3 Units
Term Typically Offered: Spring Only
Corequisite(s): PHYS 466.
Description: Employing knowledge and skills developed over the entire program, the course will examine the structure and dynamics of mid-latitude weather systems. Students will learn to integrate observations, numerical weather prediction models, and the physical principles developed in previous courses to understand the atmosphere’s behavior and develop weather forecasts.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHYS 495. Communicating in Physics 1 Unit
Prerequisite(s): Senior standing.
Description: Preparation and oral presentation of scientific results in a seminar format. Organization and written presentation of scientific results in a journal format. Communication of research results through a website.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 496. Senior Seminar in Physics - CUE, WR 3 Units
Prerequisite(s): PHYS 460 and senior standing.
Description: Students will review current professional journals in the discipline and discuss effective scientific writing, including the draft and revision process. Students will write a reflection on the connections between their physics education and critical thinking models. Students will also perform a research project and present the results in journal format.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 497. Senior Thesis in Physics - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 460 and senior standing.
Description: Students will perform original research and write up their methods and results in a multi-chapter thesis. Research projects may be a continuation of previously initiated research.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 498. Undergraduate Research 1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PHYS 301, PHYS 350, PHYS 351 and approval of instructor.
Description: Experimental or theoretical research under the guidance of a physics faculty member. The student will participate in one of the ongoing research projects in the department. The student will acquire hands-on-experience in an actual research project. The student will produce a written report on the results of the research project.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 499. Cooperative Internship in Physics - CUE 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 295, PHYS 296, PHYS 298, PHYS 301 and 6 additional hours in Physics; Junior standing or above; approval of department.
Description:
Note: May be repeated to a maximum of 6 hours.
Note: Three hours may apply toward BA or BS major programs as upper division major electives or may be used to satisfy requirement for Culminating Undergraduate Experience.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 501. Independent Study 1-3 Units
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 502. Independent Study 1-3 Units
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 507. Solar System Astronomy 3 Units
Prerequisite(s): PHYS 298, PHYS 299, PHYS 300; MATH 205 and MATH 206.
Description: This is an advanced course in solar system astrophysics, and will cover orbital mechanics, the nature of light, astronomical instrumentation, solar physics, planetary atmospheres/geophysics, comets/asteroids, interplanetary dust and exo-planets.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 520. Vibrations and Sound 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 298, PHYS 299 and MATH 206.
Description: Vibrating bodies, propagation of sound waves, physical acoustics, and ultrasonics.
For class offerings for a specific term, refer to the Schedule of Classes.

PHYS 530. Thermal Physics 3 Units
Prerequisite(s): PHYS 299 and MATH 301.
Description: The laws of thermodynamics, thermodynamic reasoning, and elements of statistical mechanics.
For class offerings for a specific term, refer to the Schedule of Classes.
PHYS 531. Introductory Statistical Physics 3 Units
Prerequisite(s): PHYS 530.
Description: Elementary probability theory applied to the understanding of properties of macroscopic matter in terms of their microscopic constituents. Kinetic theory of gases, transport phenomena. Equations of state derived from ensemble theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 541. Electromagnetic Fields 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 298, PHYS 299, PHYS 300, PHYS 350, and MATH 301.
Description: Electrostatic and magnetostatic fields in free space and in material media, solutions of Poisson's equation, time dependent fields, Maxwell's equations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 542. Electromagnetic Radiation 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 541.
Description: Poisson's equation and LaPlace's Equation, propagation of electromagnetic fields with applications to optics and microwave physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 545. Advanced Optics 3 Units
Prerequisite(s): PHYS 355 and PHYS 542; or consent of instructor.
Description: Topics in optical physics including optical system design, lasers, and quantum optics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 546. Advanced Optics Lab 1 Unit
Prerequisite(s): PHYS 355 or equivalent.
Description: Laboratory experiments illustrating fundamental optical phenomena, the interaction of light and matter, lasers, and quantum optics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 547. Fundamentals of Lasers 3 Units
Prerequisite(s): PHYS 355, and PHYS 542 or ECE 473; or consent of instructor.
Description: Topics to be discussed include interaction of light with matter, optical amplifiers, laser resonators, Gaussian and higher order optical beams, non-linear optics, and ultra-fast laser pulses.
Note: Cross-listed with ECE 540.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 555. Elementary Quantum Mechanics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 300, PHYS 350, and PHYS 460.
Description: General concepts of quantum mechanics. Schrodinger equation and solutions in one, two and three-dimensions, hydrogen atom, and orbital angular momentum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 556. Quantum Theory of Matter 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 555.
Description: Spin and general angular momentum, perturbation theory, variational principle, applications, identical particles, and scattering.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 551. Mathematical Physics I 3 Units
Prerequisite(s): PHYS 350.
Description: Selected mathematical techniques and their applications to various fields of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 552. Mathematical Physics II 3 Units
Prerequisite(s): PHYS 350.
Description: Selected mathematical techniques and their applications to various fields of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 555. Computational Physics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 390; and PHYS 555 or PHYS 561 taken concurrently; familiarity with a programming language.
Description: Introduction to modern computational methods in physics with application to problems in different branches of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 570. Atomic and Molecular Physics 3 Units
Prerequisite(s): PHYS 541 and PHYS 555; or consent of instructor.
Description: The structure of atoms and diatomic molecules, the production of coherent radiation and its interaction with matter.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 575. Solid State Physics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 541 and PHYS 555, or consent of instructor.
Description: Crystal structure, elastic waves, lattice dynamics, phonons, band theory of solids and conductivity phenomena.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**PHYS 580. Nuclear Physics**  
Prerequisite(s): PHYS 541 and PHYS 555; or consent of instructor.  
Description: Phenomenological study of nuclear properties. Nuclear structure and reactions, radioactive decay, interaction of charged particles with matter.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHYS 585. Elementary Particle Physics**  
Prerequisite(s): PHYS 541 and PHYS 555, or consent of instructor.  
Description: Properties of elementary particles. Detectors and accelerators. Weak and electromagnetic interactions. Quark model of hadrons, strong interactions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHYS 589. General Relativity**  
Term Typically Offered: Spring Even Years  
Prerequisite(s): MATH 301 and PHYS 460.  
Description: Review of classical gravitation and special relativity, Riemannian geometry, Einstein field equations, exact solutions, tests of the theory, gravitational collapse and black holes, gravitational waves, cosmology.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHYS 590. Astrophysics**  
Prerequisite(s): PHYS 307 and PHYS 350, or equivalent.  
Description: Physics applied to the interstellar medium; the atmospheres, structure, and evolution of stars; galaxies.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHYS 595. Special Topics**  
Description: Introduction to an advanced topic or elaboration of an intermediate topic not treated comprehensively in a regular course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Planning (PLAN)**

**PLAN 305. Dogs in Society: An Interdisciplinary Examination of the Human Canine Connection - SB**  
Term Typically Offered: Spring Only  
Description: The course examines the evolution of dogs as human partners in society and delves into the relationship of our species with one another. It explores medical, safety, ethical, regulatory and legal issues, including the American with Disabilities Act and municipal approaches to regulating ownership. It considers behavioral adaptations of both species and some cutting-edge research in canine neuroscience.  
(Social Science)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PLAN 380. Special Topics in Urban Planning**  
Term Typically Offered: Occasionally Offered  
Description: This course will cover special topics in urban planning at the undergraduate 300 level. Content of the course will vary by semester offered and instructor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PLAN 500. Economics for Public Affairs**  
Description: An introduction to basic economic concepts and their application to public affairs and urban planning.  
Note: Cross-listed with PADM 500.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PLAN 501. Urban Environmental Quality**  
Prerequisite(s): Consent of instructor.  
Description: A study of environmental aspects of urban areas and analysis of inter- and intra-city variations in environmental quality.  
Note: Cross-listed with GEOG 561.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Political Science (POLS)**

**POLS 101. AP Credit**  
Description: Placeholder course to record AP credit in Political Science.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**POLS 111. Political Discourse - OC**  
Term Typically Offered: Fall, Spring  
Description: Course designed to familiarize students with dimensions of political discourse while simultaneously providing students with opportunity to practice arts of political speech.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 201. Introduction to American Government and Politics - SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: An introduction to national government, stressing the constitutional system, individual rights, techniques of popular control, organization of the presidency, Congress, and the federal courts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 202. Introduction to Comparative Politics - D2, SB 3 Units
Term Typically Offered: Fall, Spring
Description: An introduction to foreign governments and major topics in comparative politics, such as democracy, dictatorship, political economy and civil war.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 299. Honors Introduction to Political Science 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Invitation by departmental Honors Committee.
Description: An examination of the theories, concepts, and units of analysis used in contemporary political science.
Note: Seminar format.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 302. Urban Political Economy 3 Units
Term Typically Offered: Fall, Spring
Description: Examination of the interrelationships between economic and political forces in the community and how these shape urban development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 304. Comparative Urban Politics 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of urban politics in comparative perspective. Highlights the rise of a global economy, its consequences for urban governance and the new role of cities in the international arena.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 305. Urban Politics 3 Units
Term Typically Offered: Fall, Spring
Description: Examination of urban government and politics. Topics include machine politics, urban development, race and ethnicity, power and democracy, and metropolitan problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 306. State Government 3 Units
Term Typically Offered: Fall, Spring
Description: State and local government, with emphasis upon political, legislative, judicial, and administrative processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 309. Labor and Employment Law 3 Units
Term Typically Offered: Fall, Spring
Description: An examination of labor and employment law in the context of national and international economic systems. Includes a study of the history of labor movement, union structure and activities, the legal framework of labor relations, legal issues related to employer-employee relations, and the impact of international economic forces on labor legislation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 310. Policy, Community & Service 3 Units
Term Typically Offered: Spring Odd Years
Description: Students will gain career experience applying principles of civic engagement, disciplinary knowledge & skills in a real world setting, and reflecting on those experiences while fostering mentorships, personal values, and civic responsibility.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 311. American Presidency 3 Units
Term Typically Offered: Fall Only
Description: An examination of the constitutional roots and historical development; concentrates on the current roles, strengths, and problems of the presidency.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 312. American Constitutional Law 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): POLS 201, or POLS 299, or faculty consent.
Description: The development and application of constitutional law: nature and scope of judicial, legislative, and presidential power in the national government and the allocation of powers in the federal system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 313. American Constitutional Law 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): POLS 201, or POLS 299, or faculty consent.
Description: American constitutional law, with a focus on civil and political rights such as First Amendment freedoms, rights of accused persons, racial equality, due process, equal protection of the law.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 314. Judicial Politics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): POLS 201, POLS 299, or faculty consent.
Description: Analysis of court systems, including structure and functions of the courts, staffing, relationship to other branches, formation of judicial policy, and the impact of judicial decisions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 315. Race, Law and Politics - D1, SB 3 Units
Term Typically Offered: Fall, Summer
Description: This course examines the legal consequences of racial inequality in the United States. It explores the origins of the concept of race and documents the nature of contemporary racial inequality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 316. Gender, Sexuality & Law 3 Units
Prerequisite(s): POLS 201 or instructor consent.
Description: This course examines how legal policy both reflects and shapes norms related to gender and sexuality, and analyze the public policy implications of court decisions related to gender and sexuality.
Note: Cross-listed with WGST 316.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 317. American Congress 3 Units
Term Typically Offered: Spring Only
Description: An analysis of external and internal forces, institutional organization and processes, constitutional provisions, pressure group activities, and other factors which interact to determine the role of the Congress in the making of public policy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 318. Religion and United States Politics 3 Units
Term Typically Offered: Occasionally Offered
Description: Study of the impact of religion on politics in the United States. Includes analysis of religion in political development, constitutional law, elections, and policy lobbying.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 319. Media and Politics 3 Units
Term Typically Offered: Fall, Spring
Description: An examination from normative, empirical and legal perspectives, of the influence of the news media on American politics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 320. Civil Rights and the Law II 3 Units
Term Typically Offered: Spring Only
Description: An examination of the legal and political aspects of Black civil rights from World War II to contemporary times.
Note: Cross-listed with PAS 363.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 321. Public Opinion 3 Units
Term Typically Offered: Summer Only
Description: An analysis of the origins, distribution and consequences of public opinion upon the political and policy process of governmental institutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 322. American Political Parties and Elections 3 Units
Term Typically Offered: Fall, Spring
Description: The American party system, emphasizing the two-party system, minor parties, suffrage and voter behavior, party organizations, nominations, and elections.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 323. Queer Politics 3 Units
Term Typically Offered: Spring Only
Description: The course examines the political organization of gays, lesbians and transgendered persons, forms of oppression they experience, forms of political activism they utilize, and their relationship to mainstream political institutions.
Note: Cross-listed with WGST 323.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 324. Women in American Politics 3 Units
Term Typically Offered: Summer Only
Description: A study of women's involvement in American politics as active political party members, as candidates for national, state, and local offices, as elected officials, and as appointees to government positions at all levels.
Note: Cross-listed with WGST 355.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 325. Public Administration 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): POLS 201, or POLS 299, or faculty consent.
Description: Introduction to basic issues and concepts in public administration, bureaucratic politics, public-sector management, and decision-making strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 326. Public Policy 3 Units
Term Typically Offered: Fall, Spring
Description: A study of American public policy processes and outcomes, focusing on the national level of government.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 327. African American Politics - D1, SB 3 Units
Term Typically Offered: Spring Only
Description: The relationship between African Americans, race history and the American political system via political behavior research: political socialization, organization, mobilization, leadership, voting, political parties, coalitions and interest group strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 328. Information Technology and Politics  
Term Typically Offered: Fall Only  
Description: What is the impact of information technology on politics? This course will examine how the Internet in general, social media, digital news and other information technologies fit into an already developed understanding of society and politics. This means that we will explore how new information technologies may challenge or support current theories in political science and communications. This exploration will involve looking at the impact of digital technology on some basic political processes such as news consumption and information gathering, bureaucratic functions, voting, public opinion, and campaigning among other things.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 330. International Relations  
Term Typically Offered: Fall, Spring  
Description: An introduction to the study of world affairs, with a focus on interstate politics; examines power politics, the role of ideology and globalization.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 331. International Organization - WR  
Term Typically Offered: Fall, Spring  
Description: Work of the United Nations and non-governmental organizations in peacemaking; peacekeeping, and the promotion of global economic, social and humanitarian progress through the interpretation of international law.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 332. International Law - WR  
Term Typically Offered: Fall, Spring  
Description: A study of existing and emerging law which governs nation-states in their relations with each other.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 333. American Foreign Policy  
Term Typically Offered: Fall, Spring  
Description: Examines the process of making U.S. foreign policy, including actors and their interests, as well as major contemporary issues such as the use of force and trade policy.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 334. The Politics of Global Economic Relations  
Term Typically Offered: Occasionally Offered  
Description: Introduction to political aspects of international economic institutions and processes, international trade, foreign aid, theories of neo-colonialism and dependency. North-South and East-West problems and prospects.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 335. Global Environmental Politics  
Term Typically Offered: Occasionally Offered  
Description: Study of environmental and resource issues on the global level, focusing on the various implications of sustainable development.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 336. Politics of European Integration and Foreign Policy  
Term Typically Offered: Occasionally Offered  
Description: Examination of the European Union's evolution, structures, decision-making, and policies in economic and political integration. Also examines the foreign and defense policies of members of the European Union and U.S./European relations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 337. Law, Diplomacy and Power  
Term Typically Offered: Fall, Spring  
Description: An examination of the development of U.S. diplomacy, focusing on the interplay of moral, legal, and power-driven motives and themes, analyzing diplomatic strategies, objectives, errors and accomplishments.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

Term Typically Offered: Fall, Spring  
Description: A survey of contemporary security policy issues, including both military and nonmilitary questions, such as deterrence, arms control, ecological destruction, nationalism, resource scarcity, etc.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 339. Terrorism  
Term Typically Offered: Fall, Spring  
Description: An examination of the phenomenon of nationalism and terrorism in international politics. Historical and contemporary examples used to illustrate the theoretical issues.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)

POLS 340. Politics and Government of Western Europe  
Term Typically Offered: Occasionally Offered  
Description: An examination of the political structures, processes, and policies of the nation-states of Western Europe.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule SETUPSEARCHCLASSSCHEDULE.CFM)
POLS 341. Political Violence  
Term Typically Offered: Fall Odd Years  
Description: Course will consider various manifestations of sub-national political violence, including terrorism, insurgency, and civil war. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 345. Russia and Eurasia - WR  
Term Typically Offered: Occasionally Offered  
Description: Political processes and policies in the former communist states of Euro-Asia. Emphasis on ethnic relations, economics, and institution-building.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 347. Democratization  
Term Typically Offered: Occasionally Offered  
Description: This course examines the differences between democratic and non-democratic states, and discusses in comparative perspective the process by which states move from dictatorship to democracy. The role of economics and culture, and the impact of structures such as presidential and parliamentary forms of government on democratization are treated, as are explanations for occasional breakdown of democratic systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 349. Comparative Political Culture - WR  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): POLS 202 or faculty consent.  
Description: Comparative approach to the political values, attitudes and belief systems of nations and sub-national units.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 350. African Government and Politics  
Term Typically Offered: Occasionally Offered  
Description: Cultural settings of Africa south of Sahara, decline of European dominance, national independence movements, self-governing states, and such problems as economic development, race relations, and relations with world power blocs.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 355. Introduction to Middle East Politics  
Term Typically Offered: Fall, Spring  
Description: Survey of Middle Eastern political systems with emphasis on the process of development and modernization and its impact on the region.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 356. Political Islam  
Term Typically Offered: Spring Odd Years  
Description: Course will consider various political organizations that desire the greater influence of Islam on public life throughout the Muslim World.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 362. Comparative Political Economy  
Term Typically Offered: Fall Only  
Description: An examination of the institutional framework of economic performance and cultural dynamics of the United States, Japan, and Western Europe.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 363. Politics of Oil  
Term Typically Offered: Occasionally Offered  
Description: Oil in domestic and international politics of selected countries, oil as a catalyst for war, influence of oil companies on politics, political implications of recent shifts in world energy balance.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 364. World Order  
Term Typically Offered: Occasionally Offered  
Description: This course will investigate central concepts and theories of international relations from a world-order perspective. It will examine disorder and efforts to create order through interactions and manipulation of power.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 365. People's Republic of China - WR  
Term Typically Offered: Fall, Spring  
Description: An analysis of political processes in China, with emphasis on participation and recruitment, socialization, ideology, education, and organization.

Note: Cross-listed with AST 365.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 366. Politics of East Asia  
Term Typically Offered: Fall Only  
Description: A survey of East Asian political systems with an emphasis on development, social and economic policies, political institutions, and cultures.

Note: Cross-listed with AST 366.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 367. Politics and Government of Southeast Asia 3 Units
Term Typically Offered: Occasionally Offered
Description: An introduction to the government and politics of Southeast Asia, revealing the historical context within which to locate the current security, political and economic challenges that the countries of the region face. Special focus will be given to the politics of Burma, Indonesia, Malaysia, the Philippines, Thailand and Singapore as well as the impact of an ascendant China.
Note: Cross-listed with AST 367.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 370. Comparative Political Development in Latin America 3 Units
Term Typically Offered: Occasionally Offered
Description: The process of nation building in selected countries, with emphasis on evolution of government and party systems, violent revolution, the military, and the political culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 371. Latin America in the World 3 Units
Term Typically Offered: Spring Only
Description: Survey of Latin America's role in the international system focusing on contemporary theoretical and institutional developments including OPEC, the OAS, the Andean Pact and institutions involved in North-South dialogue.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 381. Early Political Thought 3 Units
Description: A general survey of political thought, typology, and systems, from classical antiquity through the Middle Ages to the beginning of modern times.
Note: Cross-listed with HIST 301.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 382. Modern Political Thought 3 Units
Term Typically Offered: Spring Only
Description: Main currents in modern political thought, including liberal, Marxist-Leninist, socialist, anarchist, and conservative thought. Topics such as equality, alienation, participation, political obligation, political order, and change.
Note: Cross-listed with HIST 302.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 383. American Political Thought 3 Units
Term Typically Offered: Occasionally Offered
Description: General survey of American political thought from colonial times to the present. Examination of topics such as puritanism, federalism, utopianism, social Darwinism, and anarchist, socialist, and populist thought.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 384. Democracy and Its Critics - WR 3 Units
Term Typically Offered: Spring Only
Description: Problems in democratic theory, examination of the moral foundations of democracy; consideration of such issues as liberty and authority, equality, representation, majority rule, and participation.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 386. Political Theory and Utopia - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of selected literary utopias from the perspective of political theory. Analysis of socialist, anarchist, democratic and totalitarian elements.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 387. American Utopian Communities 3 Units
Term Typically Offered: Occasionally Offered
Description: Examination of selected "utopian" communities, past and present. Consideration of groups such as the Shakers, Rappites, Oneidans, Owenites and Fourierists as well as current intentional communities. Emphasis on communal values and practices, issues of equality, authority, conflict, participation and freedom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 388. Contemporary Political Theory 3 Units
Term Typically Offered: Fall, Spring
Description: Survey of twentieth century political theory. Topics may include the crisis of reason; capitalism; technology and freedom; political values and globalization; terrorism and modernity; human rights.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 390. Contemporary Political Research 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: This class develops quantitative arguments and analyses in political science through the use of contemporary analytical and presentation techniques. This class emphasizes diverse data sources and statistical arguments.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 395. Political Leadership - WR 3 Units
Term Typically Offered: Spring Odd Years
Prerequisite(s): POLS 201, or POLS 202, or POLS 299, and faculty consent.
Description: Major concepts and theories of political leadership, including psychological, cultural and social factors; moral, transforming and transactional leadership types.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 399. Topics in Political Science 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Topics will vary depending on instructor and demand.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 401. Topics in American Politics 3 Units
Term Typically Offered: Occasionally Offered
Description: An examination of one or more selected contemporary problems in American government, such as national-state relationships, civil rights, foreign policy, labor relations, and taxation policy.
Note: Topics to be varied from year to year.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 402. Topics in Comparative Politics 3 Units
Term Typically Offered: Fall, Spring
Description: A comparative study of governments of selected countries, stressing one or more subjects such as party systems, policy-making processes, administration, regulation of economics, and others to be determined each time course is offered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 404. Topics in Political Theory 3 Units
Term Typically Offered: Spring Odd Years
Description: An examination of one or more selected topics in the study of political theory.
Note: Topics to be determined each time course is offered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 405. Topics in Public Policy 3 Units
Term Typically Offered: Fall, Spring
Description: An examination of one or more selected topics in the study of public policy.
Note: Topics to be determined each time course is offered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 406. Topics in International Relations 3 Units
Term Typically Offered: Fall Only
Description: An examination of one or more selected topics in world politics.
Note: Topics to be determined each time course is offered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 426. Environmental Policy 3 Units
Term Typically Offered: Fall, Spring
Description: Political dynamics and choices affecting American and international environmental policy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 430. Cooperative Internship in Political Science 1-3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Students must meet Arts & Sciences requirements for co-ops/internships.
Description: An individually arranged course combining a work experience with a related academic project.
Note: May not apply toward major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 437. The United States and East Asia - WR 3 Units
Term Typically Offered: Occasionally Offered
Description: A survey and analysis of U.S. relations with the states of East Asia with particular attention to political, economic and military affairs during the Cold War and after.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 450. Topics in World Affairs 1 Unit
Description: Attend minimum of three lectures sponsored by department, read works by featured speakers and about topics, meet under faculty supervision to discuss readings.
Note: Students may enroll up to six times and count up to six credits toward major requirements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 465. Chinese Culture 3 Units
Term Typically Offered: Spring Only
Description: Introduction to the politics and society of the People’s Republic of China. Includes travel to the People’s Republic of China.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 491. Independent Study  1-3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.  
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 492. Independent Study  1-3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 495. Senior Seminar - CUE, WR  3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Completed 90 hours, political science majors only.  
Description: Will examine issues using material drawn from the subfields of political theory, comparative politics, and American politics.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs.  
CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 499. Senior Honors Thesis - WR  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Senior standing; admission to department Honors Program.  
Description: An intensive examination of a topical area in political science undertaken with a designated faculty advisor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 500. Topics in Comparative Politics  3 Units  
Description: A comparative study of governments of selected countries, stressing one or more subjects such as party systems, policy-making processes, administration, regulation of economics, and others to be determined each time course is offered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 502. Topics in Comparative Politics  3 Units  
Description: An advanced focus on one or more selected topics in world politics. Research projects, reports and simulations will likely be required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 504. Topics in Political Theory - WR  3 Units  
Prerequisite(s): Senior standing or faculty consent.  
Description: An examination of one or more selected topics in the study of political philosophy. Individual research projects and reports are required.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 505. Topics in Urban and Public Policy  3 Units  
Description: An interdisciplinary study of metropolitan problems, providing an opportunity to probe into basic long-range trends and human factors.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 506. Topics in International Relations  3 Units  
Prerequisite(s): Consent of instructor.  
Description: An advanced focus on one or more selected topics in world politics. Research projects, reports and simulations will likely be required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 507. Topics in Digital Politics  3 Units  
Description: Investigation of the role of information technology in politics and policy-making with a focus on real-world applications. Topics may include political campaigns, interest group advocacy, and e-government.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 510. Louisville Metro Council Internship  1-3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): Consent of instructor.  
Description: Practical internship in government.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

POLS 511. Practicum  1-3 Units  
Prerequisite(s): Consent of instructor.  
Description: Practical internship in government.  
Note: Application must be made before enrollment.  
Note: Placement opportunities are limited.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 512. Frankfort Legislative Internship  
**Description:** This course offers students the opportunity to experience working in the office of an elected member of Kentucky General Assembly. Interns work an average of 16 hours per week during the legislative session. Intern responsibilities may vary, depending on the intern's experience and interests as well as the needs of the office. The primary objectives of the intern program include: providing students the opportunity to gain first-hand experience working in government and politics, generating insight into the realities of the political process and how it relate to traditional theoretical perspectives of political science, and educating students about the possibilities of public service and politics as a career choice. 

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 520. Coping with Conflict  
**Description:** This active-learning course involves students negotiating and then analyzing realistic hypothetical cases related to local, national, and international issues found within the North American countries. 

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 530. International Negotiation  
**Description:** An examination of the politics of interstate bargaining. Various theoretical perspectives are examined as well as several real world examples. Students will participate in role-playing exercises. 

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 552. Politics through Film  
**Description:** An examination of authority patterns, political change, using cinematic portrayals as the primary literature base for investigation. 

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 563. Women in Developing Countries - WR  
**Description:** Follows the progress of the international women's movement by focusing on the emergence of women leaders and their work in developing countries since the First World Conference on Women, 1975 to the present. 

**Note:** Cross-listed with WGST 558. 

**Note:** Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 568. Feminist Theory - WR  
**Description:** Survey of the history and scope of the feminist tradition with emphasis upon liberal, radical, Marxist, socialist, psychoanalytic, and postmodern approaches to feminist theory. 

**Note:** Cross-listed with WGST 556. 

**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR). 

**Note:** Credit may not be earned for both WGST 556/POLS 568 and WGST 656/POLS 668.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PORT 275. Elementary Portuguese 3-6 Units
Prerequisite(s): Participation in a language course taught in Portugal administered by Portugal Studies Program.
Description: Portuguese language at "elementary" level. Course taught in Portugal. Reading, writing, speaking, understanding skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PORT 313. Special Topics in Luso-Brazilian Culture, Literature and Language 3 Units
Prerequisite(s): PORT 202, PORT 132, or permission of instructor.
Description: Critical readings and interpretation of works in Portuguese whose themes and issues have relevance to today's world. Topics may vary.
Note: May be repeated for credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PORT 375. Advanced Intermediate Portuguese Language 3-6 Units
Prerequisite(s): Participation in a language course taught in Portugal administered by Portugal Studies Program.
Description: Portuguese language at "intermediate" level. Course taught in Portugal. Reading, writing, speaking, understanding skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Psychology (PSYC)

PSYC 201. Introduction to Psychology - SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to the methods and major content areas of psychology: sensation, perception, learning, cognition, human development, abnormal and social psychology.
Note: Students are required to participate in one or more standard experiments or to submit abstracts of published studies as part of PSYC 201.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 202. Orientation to the Psychology Major/Careers in Psychology 1 Unit
Term Typically Offered: Occasionally Offered
Description: An orientation to 1) the psychology major and its requirements at UofL and 2) the field of psychology and its career options. Designed to enhance students' opportunities within this field through development of an action plan that guides their experiences while completing their degree at UofL.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 205. Making Sense of Data - QR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Appropriate placement score or equivalent coursework.
Description: Students will learn about the nature of scientific inquiry, how to tell good science from bad science, how to think critically about using data to support or undermine persuasive messages, how to find and assess the quality of scientific reports to answer their questions, and how to science-specifically studying human behavior-is meaningful in their everyday lives. The uses and misuses of descriptive statistics, the graphic representation of data, the role of bias, and the evaluation of behavioral science reports will be major topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 301. Statistics for Psychology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201; MATH 111 (or equivalent) or above.
Description: Elementary statistical methods as applied in the social sciences: probability; distribution (theoretical and empirical), statistics and parameters; sampling; tests of hypotheses including ANOVA; regression and correlation; contingency.
Note: Students may not receive credit for both this course and SOC 301, CJ 326 (formerly JA 326), BSTA 201, BSTA 301, MATH 109, BIOL 350.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 302. Research Methods for Psychology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201; MATH 111 (or equivalent) or higher; PSYC 301.
Description: Introduction to scientific methods in psychology: formulation of hypotheses, design of experiments, execution of experiments, analysis of data, communication of results.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 305. Brain and Behavior 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 201.
Description: The course will focus on relationships between brain function and human behavior. It will introduce the structures, systems, and methods by which human behavior is reflected in neural activity. It will examine how nerve cells function individually and work together; the structure of the nervous system; how our sense organs provide the nervous system with information about the outside world; how the brain controls movement; and how sleep, eating, sex, stress, and social interaction are represented in the brain. We will also investigate how the nervous system is influenced by bioactive substances including natural hormones (e.g., during a response to stress), pharmacological therapeutics, and recreational drugs.
Note: Students who have previous credit for PSYC 344 cannot earn credit for this course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 306. Life Span Developmental Psychology  
Term Typically Offered: Fall, Spring  
Prerequisite(s): PSYC 201.  
Description: A review of human growth and development across the lifespan. This course examines physical, cognitive, and socioemotional development from conception through old age. This course is relevant for students in psychology, neuroscience, communicative disorders, education, nursing, and public health.  
Note: Students cannot receive credit for this course and also PSYC 363 or PSYC 365.  
Note: Previously taught as PSYC 363.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 307. Cognitive Processes  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): PSYC 201.  
Description: Survey of theory and research on cognition, i.e., thinking, concept attainment, memory, language, creativity, problem solving, and decision-making.  
Note: Previously taught as PSYC 322.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 308. Abnormal Psychology  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): PSYC 201.  
Description: An introduction to taxonomy, nature, causes, and treatments of maladjusted behavior.  
Note: Previously taught as PSYC 385.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 310. Psychology of Diversity  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): PSYC 201 or consent of instructor.  
Description: Exploration of psychological processes as they relate to interactions between diverse individuals and groups. Pertinent psychological processes include perspective taking, belief updating, creativity, identity formation, stereotyping and prejudice. Diversity will be broadly construed to encompass many dimensions along which individuals and groups differ, such as race, gender, sexuality, religiosity, physical ability, mental health, conservatism/progresivism, collectivism/individualism and socioeconomic status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 314. Reasoning and Decision-Making  
Term Typically Offered: Spring Only  
Prerequisite(s): PSYC 201.  
Description: How do people make decisions that impact their lives and the world? This course is an introduction to reasoning and decision science, including psychological, economic, ethical and political perspectives on decision-making. Students will explore decision-making in everyday life, politics, the economy, medicine, sports and the environment, with an emphasis on sustainability issues and social outcomes. This is an active, collaborative learning course with group discussions and problem-solving, as well as brief lectures. This course is relevant to students interested in all social sciences, business management, behavioral economics, health care, sustainability, political science, public health and policy, and law.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 320. Exercise Psychology  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): PSYC 201.  
Description: This course provides an introduction to a) psychological principles affecting exercise initiation and maintenance; and b) psychological outcomes of physical activity and exercise related to mental and physical health. It is an interdisciplinary course integrating Psychology and Exercise Science. It is relevant for students interested in medicine, wellness, education, sports and biology as well as psychology.  
Note: Previously taught as PSYC 450.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 321. Conditioning, Learning and Behavior  
Term Typically Offered: Fall, Spring  
Prerequisite(s): PSYC 201.  
Description: Psychologists define learning as a relatively permanent change in an organism’s behavior due to experience. This course examines the basic processes of human and animal learning, focusing on classical and operant conditioning observational learning, and biological predispositions. This course address applications of the theoretical and empirical literature, including behavior change and analysis.  
Note: This course does not directly address issues of school teaching practice.  
Note: Students who have previously taken PSYC 321 cannot get credit for this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 325. Health Psychology
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 201.
Description: Survey of the interconnected nature of biological, psychological and social aspects of health and an evidence-based way of thinking about these relationships. Course topics include historical and recent foundations of health psychology, stress and lifestyle and health, chronic and life-threatening diseases and treatment seeking and approaches. This course is relevant for students in psychology, pre-health professions, exercise science, public health, and other physical and mental health related disciplines.
Note: Cannot earn credit for this course and also PSYC 581.
Note: Cross-listed with PSYC 581.
Note: Previously taught as PSYC 481.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 331. Sensation and Perception
3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 201.
Description: This course examines how we perceive our environment through visual, auditory, tactile, olfactory, and taste modalities, and how perception sculpts our experience of the world around us. The course emphasizes identifying the structures and discussing the processes underlying perception. Topics covered include psychophysics (the quantitative measurement of perceptual experience), the anatomical structure of the eye, ear, tongue, nose, and skin, structures and functions of the nervous system, abnormalities in perception as results of aging or injury, commonalities and differences across modalities, and our psychological experience of perception. This course is relevant for students in psychology, neuroscience, communicative disorders, anatomy, and otolaryngology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 342. Drugs and Behavior
3 Units
Prerequisite(s): PSYC 201 or consent of instructor.
Description: Consideration of the physiological and psychological effects of drugs of social interest and the social impact of their abuse.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 344. Physiological Psychology
3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201 or BIOL 240 or consent of instructor.
Description: An introduction to the physiological and anatomical bases of behavior.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 355. Neuroscience
3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 201, PSYC 305 or PSYC 344; or permission of instructor.
Description: This course provides a deeper dive into the field of neuroscience as a follow-up course to PSYC 305, with more detailed study of the structure and function of the nervous system, covering topics such as neuroanatomy, neurophysiology, brain development and plasticity, hormonal systems, motor function, biorhythms, homeostatic systems, emotion and psychopathology. This course is relevant to students interested in biology, medicine, engineering, rehabilitation, philosophy and public health, as well as psychology and neuroscience.
Note: Students cannot receive credit for this course and PSYC 443.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 365. Child Development
3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 201.
Description: Survey of theories and research about development from infancy through childhood.
Note: Students may not receive credit for both this course and also either PSYC 306 or PSYC 363.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 366. Multicultural Psychology - WR
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor and approved major in either Psychology or Pan-African Studies with at least 90 hours of degree-applicable credit.
Description: The influences of race, gender, class and sexual bias in American society and its impact on individual psychology as well as on economically and socially-marginalized groups.
Note: Approved for the College of Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 372. Social Psychology
3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201 or consent of instructor.
Description: Major topics relevant to people as social beings; social learning and personality development, social influences in perception and cognition, interpersonal communication and influence, small group behavior, and mass behavior.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 375. Personality
3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201 or consent of instructor.
Description: A review of major personality theories in terms of experimental and clinical findings.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 378. Understanding Measurement and Testing in Psychology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 301.
Description: This class teaches students about the way tests and other measurement approaches are developed and evaluated, and provides a basic survey of how tests are used to assess important psychological constructs such as ability, personality, and psychopathology.
Note: Previously taught as PSYC 313.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 382. Cognitive Neuroscience 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 201; PSYC 305 or PSYC 344; or instructor permission.
Description: Cognitive neuroscience combines tools and theories from cognitive science, neuropsychology, and computational modeling to understand the neural basis for functions like seeing, hearing, remembering, acting, and speaking. Upon completion of this course, students will be able to understand, evaluate, and communicate newsworthy findings from cognitive neuroscience research. This course is particularly relevant to students who plan to pursue health or science-related careers.
Note: Previously taught as PSYC 422.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 383. Forensic Psychology 3 Units
Term Typically Offered: Fall, Spring
Description: Areas of inquiry in which both psychological and legal aspects are important: insanity defenses, criminality, courtroom process, methods of deception, detection.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 388. Principles of Clinical Psychology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 201; PSYC 308 or PSYC 385; or permission of instructor.
Description: Examines the history, theoretical foundations, and methods of clinical psychology. Emphasis on areas of clinical practice, along with understanding how basic research methods are employed to explore clinical questions and support clinical practice.
Note: Cannot earn credit for this course and also PSYC 482 or PSYC 582.
Note: Previously taught as PSYC 482.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 389. Internships in Psychology - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 201, PSYC 301, PSYC 302, and consent of instructor.
Description: This course exposes students to psychological theories and empirical research experience the PSYC 401. Topics which are timely or of interest to specialized groups. Credit varies, as listed each semester in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 400. Psychology Research and Public Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301, PSYC 302 and consent of instructor; completion of or concurrent enrollment in PSYC 401.
Description: This course will focus on issues surrounding the interpretation and dissemination of psychological concepts and findings. Topics will include the critical analysis of "psychological myths" and how to write and speak about psychology for general audiences. Case studies and in-class activities will be used to illustrate the benefits and challenges of accurately portraying psychological research to the public. The content of the seminar projects will come from each student's research experience the PSYC 401.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 404. Seminar in Psychology 1-4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Consent of instructor.
Description: Topics which are timely or of interest to specialized groups. Credit varies, as listed each semester in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 407. Community Internships in Psychology - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 201, PSYC 301 and PSYC 302; or consent of instructor; 2.75 overall GPA.
Description: On-site formal training and community-based research and/or service with select non-profit agencies. Sites are chosen based on special topics/social issues and programs in applied developmental psychology.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 408. International Service Learning and Research - CUE 6 Units
Term Typically Offered: Spring, Summer
Prerequisite(s): PSYC 201, PSYC 301, PSYC 302, and PSYC 404 (spring term prior to departure).
Description: Off-campus international travel and field research/service learning project, which serves as a culminating undergraduate experience, while infusing critical thinking skills and fostering a meaningful community engagement experience. This course is intended to expose students to psychological theories and empirical research while working directly with a faculty member's research project. Application and program fee required.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 410. Giving Psychology Away: Critical Thinking and Public Communication - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 201, PSYC 301, PSYC 302 and consent of instructor.
Description: Discussion of issues surrounding the dissemination of psychological concepts and findings. Participation in public presentation is required.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 412. Modifying Behavior - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301 and PSYC 302; 24 credit hours in Psychology or senior standing; approval in the Psychology major; or permission of the instructor.
Description: This course will require mastery of behavior modification theory and techniques, and their application to the real world problems. Because behavior modification requires the systemic application of learning principles and basic research methodology skills, the course will require students to synthesize and apply information/concepts from previous psychology courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 414. Seminar in Psychology - WR 2-4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Consent of instructor.
Description: Topics which are timely or of interest to specialized groups. Credit varies, as listed each semester in the Schedule of Courses.
Note: Approved for the Arts and Sciences Upper-Level Requirement in written communication-WR.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 415. Family Risk, Resilience and Mindfulness - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301, and PSYC 302; 24 credit hours in Psychology or Senior standing; approved major in Psychology; or permission of instructor.
Description: The three units of the semester are as follows: (1) Risk Factors, (2) Resilience, and (3) Mindfulness, and each major topic will be addressed for parents, children and the family unit. We will discuss the current scientific literature on such risk factors as poverty, divorce and single parenting, homelessness, mental and physical health issues, nutrition, family and neighborhood violence, and trauma (to include trauma-informed care). The current evidence base on the science of resilience (what is it, how it’s demonstrated and how to promote it), and the practice and benefits of mindfulness for parents/children will complete the semester.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 420. History of Psychology: A Socio Cultural Perspective - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301 and PSYC 302; 24 credit hours in Psychology or Senior standing; approval in the Psychology major; or permission of the instructor.
Description: This course is designed as an overview and synthesis of the history of psychology and how this historical background has led to the development of the systems and issues of contemporary psychology. We will explore how the major historical roots and theoretical contributions led to the development of psychology as a scientific discipline. Emphasis will be on how current psychological perspectives have evolved to be more inclusive to women and minorities and the sociocultural context of this evolution.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 430. Psychology of Peace & Ethnic Relations - CUE
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301 (or equivalent), and PSYC 302; 90 credit hours; approved Psychology major or consent of instructor.
Description: This course is intended to expose students to the theories, research, and psychosocial elements of peacebuilding as they relate to interethnic relations around the world. Empirical readings and discussion will focus on race, ethnicity, identity formation, intergroup contact, spectrum of intergroup relations (e.g., expulsion, genocide, segregation, fusion, assimilation, and pluralism), restorative practices, and peacebuilding in a multicultural world.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 432. Vision and Art
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 201 or permission of instructor.
Description: This course covers how humans see, illustrated in the context of visual art. Topics include light, neural processing, visual abilities and how those influence painters and the perception of paintings.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 433. Music Perception and Cognition - CUE
Term Typically Offered: Spring Only
Prerequisite(s): 90 credit hours; Psychology major; PSYC 301, PSYC 302 and PSYC 363.
Description: This course provides an overview of the perceptual, cognitive, emotional, and neural bases of listening to music. Why does music have such strong ties to emotion? What are the parallels between music and language? What are the neuroscientific underpinnings of music perception and cognition? What does musical training do to your brain, and what other talents or skills do you acquire through musical training? This course is designed for majors in the Department of Psychological and Brain Sciences, and does not require any coursework or other background in music.
Note: Students may not receive credit for both PSYC 433 and MUTH 301.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 435. Seminar in Infancy - WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301, PSYC 302 and PSYC 363.
Description: This course will cover concepts, empirical research, and issues related to infants’ cognitive, perceptual, social, emotional, linguistic and/or physical development.
Note: Specific topics may vary.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 440. Aging: Science and Stories - CUE, WR
Term Typically Offered: Spring Only
Prerequisite(s): 90 credit hours; Psychology major; PSYC 301 and PSYC 302.
Description: The purpose of this course is to help students understand aging through scientific research and the lived experiences of individuals, and to better understand how these perspectives might differ from one another. Students will become familiar with current aging issues (e.g., cognitive aging, social and emotional aging, mental health, and Alzheimer’s disease), research methods, theories and perspectives on aging and its diversity. Students will learn how to conduct life reviews with older people and integrate these stories with scientific perspective on aging. The course requires student reflection and critical thinking about (1) how scientific evidence fits with and differs from the subjective experiences of older people and (2) how this relates to their personal aging and life story.
Note: Approved for the Arts and Sciences upper-level requirement in written communicatin (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 444. Exploration of Self: Theory and Research - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301, PSYC 302, and PSYC 375; accepted Psychology major with Senior standing.
Description: We are all subject to distortions in our understanding of ourselves due to cognitive biases and conscious and unconscious processes. This class will draw knowledge gained in prior psychology courses to study theories of self focusing on how we collect information about conscious and unconscious selves, hands-on generation of personality data, and the use of these self-generated data to compare competing theories of self. The course will require understanding and using the empirical tools of psychological science and the ability to defend and critique multiple points of view. This course represents a culminating undergraduate experience.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 445. Special Topics in Neuroscience - WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 201, PSYC 305 or PSYC 344; and PSYC 355 or PSYC 443; or permission of instructor.
Description: A seminar course providing in-depth treatment of an area of current interest in the discipline of neuroscience. Students will read, discuss and write reflections on original published works in the field.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Previously taught as PSYC 443.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 451. Introduction to Computer Programming for Psychology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 301.
Description: Introduction to the use of the MATLAB programming language in psychology. No prior knowledge of programming languages is assumed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 466. Psychology of Women 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PSYC 201.
Description: Analysis of scientific research and theory related to the psychology of women. Multiple theoretical perspectives will be considered (e.g., psychodynamic, social learning, cognitive, evolutionary, developmental, etc.) and specific topics evaluated will include: identity development, achievement, motherhood, work, family, aging, and menopause, etc. Ethnicity, culture, and social class will be considered in the context of specific topics.
Note: Cross-listed with WGST 411.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 471. Special Topics in Psychology 3 Units
Prerequisite(s): PSYC 201 and permission of instructor.
Description: Survey and analysis of current theory, research and application in a specialized topic of current interest.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 485. Stress and Trauma - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 301 and PSYC 302; PSYC 344 or PSYC 385.
Description: Introduction to traumatic stress research. Topics will include psychological theories of stress and trauma, the biology of stress and trauma, and risk factors for developing psychological problems subsequent to experiencing trauma.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 490. Independent Study 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201 and consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 491. Undergraduate Psychology Research 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PSYC 201 and consent of instructor.
Description: Designing of experiments, collection of data, and statistical treatment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 492. Undergraduate Psychology Research - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PSYC 201, PSYC 301, and PSYC 302; 27 credit hours in Psychology or Senior standing; approved Psychology major; or permission of instructor.
Description: An independent study class involving research on a focused topic in Psychology. Students register for individual sections of PSYC 492 after contacting a faculty mentor and arriving at an agreed-upon course of work for the semester. Each psychology research experience is unique to the particular student and faculty research lab in which it occurs.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 495. Honors Psychology Research 1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Acceptance into Psychology Honors Program.
Description: Designing of experiments, collection of data, statistical analysis, and report writing in support of the honors thesis. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 496. Honors Psychology Thesis - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PSYC 491 or PSYC 495; admission to Psychology Honors, permission of instructor.
Description: This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 516. Introductory Mathematical Psychology 3 Units
Prerequisite(s): PSYC 201.
Description: Survey of basic applications of probability and mathematics to models and theories in learning, perception, and social psychology. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 524. Psycholinguistics 3 Units
Prerequisite(s): PSYC 322 or LING 518.
Description: Psychological aspects of language and their significance for analysis and understanding of cognitive and social processes.
Note: Cross-listed with LING 524.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 544. Animal Behavior and Behavioral Ecology 3 Units
Prerequisite(s): PSYC 201 or consent of instructor.
Description: Survey of sensory and behavioral characteristics of animal species, with stress upon ecological variables. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 566. Race and Gender in Psychological Research 3 Units
Description: Critical review of psychology with respect to issues of race and gender. Examines theory and research paradigms, modern, postmodern and Afrocentric methodologies.
Note: Cross-listed with PAS 566.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 571. Special Topics in Psychology 3-4 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: Survey and analysis of current theory, research and application in a specialized topic of current interest.
Note: Undergraduate, Psychology Honors, or graduate credit available with consent of instructor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 581. Introduction to Health Psychology 3 Units
Prerequisite(s): PSYC 201 or consent of instructor.
Description: Survey of theory and research on psychological factors which contribute to health and well-being, and to the occurrence, severity, and remediation of illness and disease. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 582. Introduction to Clinical Psychology 3 Units
Prerequisite(s): Junior, Senior, or master’s-level student with 9 or more credit hours in Psychology beyond PSYC 201.
Description: Examines the history, theoretical foundations, and methods of clinical psychology. Emphasis on areas of clinical practice, along with understanding how basic research methods are employed to explore clinical questions and support clinical practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Administration (PADM)

PADM 500. Economics for Public Affairs 3 Units
Description: An introduction to basic economic concepts and their application to public affairs and urban planning.
Note: Cross-listed with PLAN 500.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Public Health, Epidemiology (PHEP)

PHEP 310. Environmental Epidemiology 1 Unit
Term Typically Offered: Spring Only
Corequisite(s): Concurrent enrollment in PHEP 441.
Description: This course explores epidemiologic concepts and methods related to environmental health. It is intended as a companion course to be taken concurrently with PHEP 441. Concepts introduced in the PHEP 441 course will be expanded upon using examples relevant to environmental health. In addition, topics unique to environmental epidemiology will be covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 441. Epidemiological Concepts and Methods for Public Health 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHST 301 or MATH 109.
Description: The course explores fundamental epidemiologic concept methods for public health practice and the study of health and disease in and between populations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 501. Introduction to Epidemiology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: Basic epidemiological methods are presented: terminology; study design; issues of contemporary practice; basic skills for interacting with epidemiologists, reading disease control literature, and drawing on epidemiological concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health, Biostatistics (PHST)

PHST 301. Quantitative Methods in Public Health 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 111 or Global Health minor.
Description: The course is an introduction to the concepts and theory behind quantitative analysis methods used in public health. The content focuses on how and why different statistical methods are used with minimal emphasis on statistical calculations. The skills of critical thinking, communication, and teamwork are promoted and cultivated throughout this course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 302. Intermediate Statistical Analysis 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHST 301, or equivalent introductory statistics course including Math 109, SOC 301, PSYC 301, PAS 408 etc.
Description: This course is an intermediate level applied statistics course covering key aspects of data exploration, visualization, and traditional topics in statistical inference, this course will utilize the statistical package SPSS, with a focus on understanding how to use and interpret SPSS output. This course is intended to give students familiarity with statistical tools used to analyze data in a variety of disciplines - including economics, marketing, management, education, sociology, psychology, neuroscience, biology, mathematics, physics, environmental science, engineering, computer science, finance, health services administration, and public health - to be better prepared to pose relevant statistical questions, apply appropriate statistical techniques, and effectively interpret and communicate results.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 500. Introduction to Biostatistics for Health Sciences I 3 Units
Prerequisite(s): Enrolled as a student in the PH MPH, MSc or Certificate in Clinical Investigation Sciences program.
Description: This course is a graduate level introduction to descriptive and inferential statistical methods including confidence intervals and hypothesis tests for 1- and 2-sample power and sample size calculations, one-way analysis of variance, and simple linear regression. Requisite background material on basic probability, distributions, and sampling is covered. A statistical software package will be used to execute the descriptive, graphical, and inferential statistical techniques on real data sets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 501. Introduction to Biostatistics for Health Sciences II 3 Units
Prerequisite(s): PHST 500 and enrolled in the PH MPH, MSc or Certificate in Clinical Investigation Sciences program.
Description: This course is a continued graduate level introduction to inferential statistical methods, covering multi-way analysis of variance, multiple regression, the chi-square analysis of frequencies and logistic regression, survival analysis, and nonparametric statistical methods. A statistical software package will be used to execute the descriptive, graphical, and inferential statistical techniques on real data sets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health - Health Promotion & Behavioral Science (PHPB)

PHPB 300. Social and Behavioral Foundations of Public Health 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Must be a Public Health major or a Public Health minor.
Description: The course explores how people, policy, environment, and their intersections affect public health and approaches for increasing the beneficial effects and decreasing the detrimental effects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHPB 301. Health Equity - D1, SB

Term Typically Offered: Fall Only

Description: Health equity is a goal of public health as seen in Healthy People 2020. Race or ethnicity, gender, sexual identity, age, disability, socio-economic status, and geographic location (or some combinations of these factors) contribute to an individual’s ability to achieve good health. Understanding health disparities involves a critical analysis of circumstances that produce differences in health outcomes among groups.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 305. Public Health Education Principles and Strategies

Term Typically Offered: Fall Only

Prerequisite(s): Must be a Public Health major.

Description: Upon completing this course, students will have introductory knowledge and skills that characterize the work of public health educators. The course provides an overview of a wide range of practice issues encountered in the routine work of health educators. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 501. Introduction to Public Health Behavior

Term Typically Offered: Fall Only

Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.

Description: This course reviews theoretical constructs of the causation of health-related behavior, including preventive, early diagnosis, treatment and rehabilitative behavior.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health - Undergraduate (PHUN)

PHUN 101. Introduction to Public Health - SB

Term Typically Offered: Fall, Spring

Description: The central course question addressed is "What is the history and enterprise of public health?" In learning the answer, the course explores population health, health equity, and of course the public health enterprise. Critical thinking is an integral part of the exploration and is discussed and applied using a variety of instructional methods.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHUN 102. Introduction to Public Health (Honors) - SB

Term Typically Offered: Fall Only

Prerequisite(s): Enrolled in the Honors Program.

Description: The central course question addressed is "What is the history and enterprise of public health?" In learning the answer, the course explores population health, health equity, and of course the public health enterprise. Critical thinking is an integral part of the exploration and is discussed and applied using a variety of instructional methods.

Note: Taught at Honors level.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHUN 550. Special Topics in Public Health Sciences

Prerequisite(s): Permission of instructor.

Description: In-depth exploration of public health sciences topics to advance students' knowledge in aspects of field not covered at same depth in existing courses. Taught simultaneously at graduate and undergraduate levels.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health, Environmental Health (PHEH)

PHEH 301. Public Health and Our Environment

Term Typically Offered: Fall Only

Prerequisite(s): BIOL 102 (or higher) or CHEM 101 (or equivalent chemistry course).

Description: This course delineates the impact of the environment on human health through consideration of physical, chemical, and biological factors. Topics include physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; governmental organizations that address risks, the scientific basis for policy decisions; and emerging global environmental health problems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 305. Environmental Toxicology

Term Typically Offered: Fall Only

Prerequisite(s): PHEH 301 or CHEM 101 (or equivalent chemistry course).

Description: This course will cover basic foundations of toxicology with emphasis on how environmental toxicants affect human health. Topics include principles of toxicology, survey of toxicants and their effects, organ-specific toxicity, regulatory toxicology, and development of critical thinking skills to assess health risks.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 315. Environmental Health and Public Health Practices

Term Typically Offered: Fall, Spring

Prerequisite(s): PHEH 301.

Description: This course will cover the practice of public health as related to areas typically falling under the umbrella of environmental health, including assessment of environmental hazards in air and water, food safety, swimming pool safety, vector control, and emergency preparations. Details of environmental health practice will be presented in the context of regulatory framework and scientific basis of environmental hazards.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHEH 320. Environmental Policy and Risk Assessment in Public Health  
Term Typically Offered: Fall, Spring  
Prerequisite(s): PHEH 301.  
Description: This course provides an overview of the development and implementation of environmental health policy at local, national, and global scales and the role of risk analysis. Case-examples will provide in-depth assessments of environmental health policy and specific risk analysis topics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 325. Public Health Nutrition  
Term Typically Offered: Fall Only  
Prerequisite(s): One semester of BIO 102.  
Description: This course will provide an introduction to the identification and prevention of nutrition related disease at the community and population level. Tools and measures for assessing nutritional status in the individual and group will be introduced. The interpretation of findings with relevance to policy objectives.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 330. Childhood Nutrition from a Public Health Perspective  
Term Typically Offered: Fall Only  
Prerequisite(s): One semester of BIOL 102.  
Description: This course explores the USDA childhood nutrition support programs including the national school breakfast and lunch programs, the Women Infants and Children program, and community nutrition education programs that target children. The role of food advertising on childhood food preferences as well as dietary patterns for children of various ages within the US Dietary Recommendations will be introduced.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 331. Food Composition and Public Health  
Term Typically Offered: Fall Only  
Prerequisite(s): One semester of BIOL 102.  
Description: The biology of food composition is presented within the context of public health including the impact of advertising on food and supplement choice (and resultant impact on diet quality), maternal/child health, malnutrition, and obesity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 332. Nutrition Assessment Tools  
Term Typically Offered: Spring Only  
Prerequisite(s): One semester of BIOL 102.  
Description: This course introduces the practices of nutritional assessment in target populations and communities including national health surveys and relevant epidemiological study designs. Students will become familiar with tools for assessment of nutritional status in at-risk populations and in support of national surveillance programs and the interpretation of findings with relevance to policy objectives.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 333. Food Composition and Public Health  
Term Typically Offered: Fall Only  
Prerequisite(s): BIOL 102 (or equivalent) and BIOL 104 (or equivalent).  
Description: The course explores the biology, anatomy, biochemistry, physiology, and pathophysiology of selected acute and chronic diseases from a public health perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 440. Biology for Population Health  
Term Typically Offered: Fall Only  
Prerequisite(s): BIOL 102 (or equivalent) and BIOL 104 (or equivalent).  
Description: The course explores the biology, anatomy, biochemistry, physiology, and pathophysiology of selected acute and chronic diseases from a public health perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 500. Introduction to Environmental and Occupational Health Sciences  
Prerequisite(s): Enrollment in School of Public Health and Information Sciences.  
Description: This course provides students with the basic concepts and principles of environmental health and occupational health including environmental agents in water, air and soil, such as chemicals, biological and physical agents, and other important factors that may constitute a risk to humans. It also provides an overview of the basic principles and methods of risk assessment and risk management. This course is designed for all public health practitioners and meets the core environmental health requirement for the MPH degree program.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 525. Biological Basis for Parasitic and Infectious Diseases  
Prerequisite(s): PHEH 500 (or concurrently).  
Description: This course will provide an overview of key biological concepts related to the pathogenic responses of humans to infectious and parasitic agents. The central questions addressed by the course include: What strategies are used by different types of pathogens to interact with host cells and what physical/cellular barriers impact host infectious/parasite interactions; and how do host cells/organisms respond to different types of pathogens through innate and adaptive immune responses to infectious/parasitic diseases.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHEH 526. Nutrition and Maternal and Child Health  
Term Typically Offered: Spring Only  
Description: This course covers the scientific foundations of human nutrition and digestion, methodologies for nutritional assessment in at-risk populations, and the impact of food scarcity/nutritional inadequacy on maternal/child.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Public Health, Management Systems Sciences (PHMS)

PHMS 301. Introduction to the U.S. Healthcare Delivery Systems  3 Units  
Term Typically Offered: Fall Only 
Prerequisite(s): Must be a Public Health major. 
Description: This course explores the many different aspects of health care delivery in the United States within a system of systems, the bases and processes of health care financing, and professional considerations for serving, managing, and leading in different types of health service organizations. Emphasis is placed on the role of health professionals working in different types of health service organizations. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 501. Introduction to Public Health Practice and Administration  3 Units  
Term Typically Offered: Fall Only 
Prerequisite(s): Enrolled in the School of Public Health and Information Sciences. 
Description: This course emphasizes the practical application of the principles of health care organizations to public health at the national, state and local levels. 
Note: Taught only at the graduate level. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 530. Comparative Health Systems  3 Units  
Term Typically Offered: Spring Only 
Description: This course examines health delivery and public health systems from a global perspective. The course focuses on teaching students to describe elements of these systems, the environment in which the systems exist, and the internal and external forces through which systems change. Although the structure of different health systems vary, most also have substantial similarities especially in the areas of improving access and quality, while minimizing costs. The course focuses on health systems, using examples of health systems in different countries to demonstrate system similarities and differences. The course will provide a framework for analyzing different models of organizing health care and public health in settings around the world. The course will engage students in examining health systems outside the United States, focusing specifically on how a country’s history, geography, government, and economy influence the delivery of health services. Students will apply these skills in a semester-long group project involving the analysis of a selected country’s health system, its performance factors affecting performance and structure, and opportunities for reform. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health, Public Health (PHPH)

PHPH 100. Majoring in Public Health  1 Unit  
Term Typically Offered: Fall Only 
Description: An introduction into the BS/BA Program in Public Health, this course includes topics of general education requirements, curriculum advising, and orientation and career options related to the program. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 301. Global Public Health - D2, SBH  3 Units  
Term Typically Offered: Spring Only 
Description: The course will provide an overview of the factors that produce global health challenges, including demographic changes, conflict, human rights abuses, migration, travel, food production and distribution, water resources, and market forces and economic factors. Students will become familiar with the role of government and non-governmental organizations in identifying, understanding, and addressing global health issues. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 401. Public Health and Health Policy  3 Units  
Term Typically Offered: Spring Only 
Prerequisite(s): Must be a Public Health major. 
Description: This course will introduce students to the basic terms, concepts and best practices in applying policy solutions to a range of public health problems. In addition to the principles, there will be a wide-ranging review of specific public health policy examples, and how advocates negotiate and navigate through the contrasting community positions on policy applications. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 410. Public Health Law and Ethics  3 Units  
Term Typically Offered: Spring Only 
Prerequisite(s): Must be a Public Health major. 
Description: The purpose of this course is to introduce students to the critical issues relating to law, ethics and public health. The course examines the legal foundations of the American public health system and resulting ethical dilemmas of the private interests versus public good. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 420. Practice of Public Health  3 Units  
Term Typically Offered: Spring Only 
Prerequisite(s): Must be a Public Health major. 
Description: This course is an introduction to public health practice and is organized around the core functions and essential services of public health. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### PHPH 431. Contemporary Issues in Public Health 1
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** Must be a Public Health major and have a minimum of 60 credit hours or be a Public Health minor.
- **Description:** One of two courses in a series taken over two semesters, in which student teams explore and present current public health issues in the context of Healthy People 2020 and the essential services of public health.
- **Course Attribute(s):** Belknap campus or West End, plus journal and presentation.
- **Credit Hours:** 3
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### PHPH 432. Contemporary Issues in Public Health 2
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** Must be a Public Health major and have a minimum of 90 credit hours.
- **Description:** One of two courses in a series taken over two semesters, in which student teams explore and present current public health issues in the context of Healthy People 2020 and the essential services of public health.
- **Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
- **Credit Hours:** 3
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### PHPH 491. Senior Capstone 1 - CUE
- **Term Typically Offered:** Fall Only
- **Prerequisite(s):** Must be a Public Health major and have a minimum of 90 credit hours.
- **Description:** Taken over the course of two semesters, in conjunction with PHPH 492. One semester consists of research thesis on public health; the other of a public health project by student group collaborating with Belknap campus or West End, plus journal and presentation.
- **Credit Hours:** 3
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### PHPH 492. Senior Capstone 2 - CUE
- **Term Typically Offered:** Fall, Spring, Summer
- **Prerequisite(s):** PHPH 491.
- **Description:** Taken over the course of two semesters, in conjunction with PHPH 491. One semester consists of research thesis on public health; the other of a public health project by student group collaborating with Belknap campus or West End, plus journal and presentation.
- **Credit Hours:** 3
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### PHPH 523. Public Health in the United States
- **Grading Basis:** Pass/Fail
- **Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences.
- **Description:** Course covers the history of and issues facing public health in the United States.
- **Credit Hours:** 2
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### RUSS 121. Basic Russian I
- **Term Typically Offered:** Fall, Spring
- **Description:** For beginners. Basic grammar, with practice in hearing, speaking, reading, and writing.
- **Credit Hours:** 4
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### RUSS 122. Basic Russian II
- **Term Typically Offered:** Fall, Spring
- **Description:** For beginners. Basic grammar, with practice in hearing, speaking, reading, and writing.
- **Credit Hours:** 4
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### RUSS 123. Intermediate Russian
- **Term Typically Offered:** Occasionally Offered
- **Prerequisite(s):** RUSS 122 or equivalent.
- **Description:** Review of grammar. Practice of the language through oral and written exercises. Reading from representative literature or from cultural selections.
- **Credit Hours:** 4
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### RUSS 200. Study Abroad
- **Term Typically Offered:** Occasionally Offered
- **Description:** Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion.
- **Credit Hours:** 1-15
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.

### RUSS 300. Study Abroad
- **Term Typically Offered:** Occasionally Offered
- **Description:** Participation in a University of Louisville study abroad program or another program undertaken with prior approval of the Department. Credit is awarded with proof of successful completion.
- **Credit Hours:** 1-15
- **Offered:** For class offerings for a specific term, refer to the Schedule of Classes.
RUSS 313. Readings in Russian Literature, Themes and Great Issues  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): RUSS 221 or RUSS 123 or equivalent.  
Description: Critical reading and interpretation of works in Russian literature. Topics may vary. Conducted primarily in Russian.  
Note: May be repeated once for credit.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 321. Russian Reading, Conversation, and Composition I  
Term Typically Offered: Fall, Spring  
Prerequisite(s): RUSS 221 or RUSS 123 or equivalent.  
Description: Practice in reading Russian and development of conversation skills. Also vocabulary building, grammar, culture, writing. Conducted primarily in Russian.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 322. Russian Reading, Conversation, and Composition II  
Term Typically Offered: Fall, Spring  
Prerequisite(s): RUSS 221 or RUSS 123 or equivalent.  
Description: Practice in reading Russian and development of conversation skills. Also vocabulary building, grammar, culture, writing. Conducted primarily in Russian.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 371. Special Topics in Russian  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): RUSS 221 or RUSS 123 or equivalent.  
Description: Opportunity for the advanced student to work on a project in some area of Russian studies not comprehensively covered in a regular course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 372. Special Topics in Russian  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): RUSS 221 or RUSS 123 or equivalent.  
Description: Opportunity for the advanced student to work on a project in some area of Russian studies not comprehensively covered in a regular course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 411. Studies in Russian Language, Literature, and Culture I  
Term Typically Offered: Fall, Spring  
Prerequisite(s): RUSS 322 or faculty consent.  
Description: Selected topics in Russian language, literature, and culture, chosen to meet needs of students. Topics may vary.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 412. Studies in Russian Language, Literature, and Culture II  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): RUSS 322 or faculty consent.  
Description: Selected topics in Russian language, literature, and culture, chosen to meet needs of students. Topics may vary.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 421. Advanced Russian Reading, Conversation and Composition I  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): RUSS 322 or faculty consent.  
Description: Advanced practice in reading and conversation. Also vocabulary building, grammar, culture and writing. Conducted primarily in Russian.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

RUSS 422. Advanced Russian Reading, Conversation and Composition II  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): RUSS 322 or faculty consent.  
Description: Advanced practice in reading and conversation. Also vocabulary building, grammar, culture and writing. Conducted primarily in Russian.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Social Change (SCHG)

SCHG 300. Topics in Social Change: Humanities  
Term Typically Offered: Fall, Spring  
Description: Focuses on a specific topic related to social change from an interdisciplinary, humanities perspective. Topics are announced in the schedule of classes.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 301. Topics in Social Change: Humanities (WR) - WR  
Term Typically Offered: Fall, Spring  
Description: Focuses on a specific topic related to social change from an interdisciplinary, humanities perspective. Topics are announced in the schedule of classes.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 302. Topics in Social Change: Social Sciences  
Term Typically Offered: Fall, Spring, Summer  
Description: Focuses on a specific topic related to social change from an interdisciplinary, social sciences perspective. Topics are announced in the schedule of courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SCHG 303. Topics in Social Change: Social Sciences (WR) - WR  3 Units  
Term Typically Offered: Occasionally Offered  
**Description:** Focuses on a specific topic related to social change from an interdisciplinary, social sciences perspective. Topics are to be announced in the schedule of courses.  
**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 305. Hip-Hop and Social Movements - WR  3 Units  
Term Typically Offered: Fall Only  
**Description:** Study of the rise of hip hop as a social movement, including the origins, spread, and globalization of hip-hop culture, and its use in movements for social change worldwide.  
**Note:** Approved for the Arts & Sciences upper-level written communication requirement (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 323. Modern American Social Movements  3 Units  
Term Typically Offered: Occasionally Offered  
**Description:** Introduces students to the history of modern American social movements. Topics will include organizing strategies, tactics, and results.  
**Note:** Cross-listed with HIST 323.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 333. Globalizing Inequalities - WR  3 Units  
**Prerequisite(s):** ANTH 201 or SOC 201 or SOC 202; or consent of instructor.  
**Description:** One popular story about globalization holds that human beings have been like boats all rising together on a globalizing tide. The course uses data and perspectives from across the social sciences to develop a more realistic story—one that understands that people are not boats and the tides can alternately lift them up or beat them down, refresh them or drown them depending on the circumstances. Questions about those circumstances structure the course. Another question addressed by the course: how can knowing more about globalization and inequality help us develop the human career in different possible directions? The readings and other materials vary greatly by period, by spatial focus, and by analytical perspective. This is a WR course because the topic demands that students learn to pose their own questions about it and to answer those questions in cogent prose.  
**Note:** Cross-listed ANTH 333.  
**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 399. Lectures in Social Change  1 Unit  
Term Typically Offered: Spring Only  
**Description:** A series of public lectures in Social Change with reading, short writing assignment and discussion for each lecture.  
**Note:** May be repeated when topics vary, up to a maximum of 3 hours.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 401. Social Change Community Internship  3 Units  
Term Typically Offered: Fall, Spring  
**Prerequisite(s):** Restricted to Social Change minors with at least 9 hours of Social Change (SCHG) coursework.  
**Description:** Working with a Social Change faculty member, student will design a project based on 10 hours/week volunteer work in a community organization working for social change.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 453. Social Change  3 Units  
Term Typically Offered: Occasionally Offered  
**Prerequisite(s):** SOC 201 and SOC 320.  
**Description:** Provides advanced study of a specific topic related to social change from an interdisciplinary, humanities perspective.  
**Note:** Cross-listed with SOC 453.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 500. Advanced Topics in Social Change: Humanities  3 Units  
Term Typically Offered: Occasionally Offered  
**Description:** Provides advanced study of a specific topic related to social change from an interdisciplinary, humanities perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 501. Advanced Topics in Social Change: Social Sciences (WR) - WR  3 Units  
Term Typically Offered: Occasionally Offered  
**Description:** Provides advanced study of a specific topic related to social change from an interdisciplinary, social sciences perspective.  
**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SCHG 502. Advanced Topics in Social Change: Social Sciences  3 Units  
Term Typically Offered: Occasionally Offered  
**Description:** Provides advanced study of a specific topic related to social change from an interdisciplinary, social sciences perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**SW 101. Social Work Orientation** 1 Unit

**Term Typically Offered:** Fall Only

**Description:** This class is designed to help students gain an increased awareness of academic support services offered throughout the University of Louisville and the Kent School of Social Work Advising and Student Services. It will allow BSW students to explore their academic and social self-awareness to create the best strategy for their career at the university. This orientation course is designed to help acclimate students to college life. The course will give the student information about how to plan which courses to take to stay on track with their BSW major, how to get involved on campus and future career paths of a social worker.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**SW 201. Introduction to Social Work - D1, SB** 3 Units

**Term Typically Offered:** Fall, Spring

**Description:** This course introduces students to the profession of social work, its Code of Ethics, values base and commitment to social justice and working with vulnerable and oppressed groups. Students are exposed to the profession’s history as well as current social issues and trends. The course provides an introduction to the roles of the generalist social work practitioner within a theoretical framework that includes systems theory, an ecological perspective, a problem-solving model, and the value of diversity. The course stresses self-awareness in determining suitability for a career in social work.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**SW 202. Intimate and Family Relationships - SB** 3 Units

**Term Typically Offered:** Fall, Spring

**Description:** The course introduces students to the scientific study and understanding of couple and family life. Examination of attitudes and values regarding intimate relationships is encouraged. Class activities and assignments enable students to integrate personal experiences with newly gained understanding and knowledge.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**SW 203. Human Biology for Social Sciences** 3 Units

**Term Typically Offered:** Fall, Spring

**Description:** The course is designed to be a supporting course for bachelor degree students in social work. In each session, we consider fundamental physiological conditions and the structures related to each condition. While the course emphasizes normal functioning, each discussion will include examples of alterations caused by illness and exposure to exogenous substances (drugs, medications, and infections).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**SW 204. Introduction to Social Statistics** 3 Units

**Term Typically Offered:** Fall, Spring, Summer

**Prerequisite(s):** Completion of General Education Quantitative Reasoning (QR) Requirement.

**Description:** The purpose of this course is to introduce Bachelor of Social Work students to quantitative tools used to describe/interpret data used in social work practice, research, and policy formation. Students learn to plan and conduct analyses guided by understanding of social work.

**Note:** Cross-listed with MATH 109, PSYC 301, SOC 301, CJ 326, MGMT 201.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**SW 205. Gay, Lesbian, Bisexual and Transgender (GLBT) Issues and Social Welfare** 3 Units

**Prerequisite(s):** SW 201.

**Description:** The purpose of this course is to introduce contemporary topics related to the social welfare of gay, lesbian, bisexual and transgender (GLBT) individuals. Issues addressed are related to development, health disparities, family, research, history and ethics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 301</td>
<td>Human Behavior and the Social Environment I</td>
<td>3</td>
<td>Fall Only</td>
<td>Completion of General Education requirements and admission to BSW program.</td>
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<td><strong>Term Typically Offered:</strong> Fall Only</td>
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<td><strong>Prerequisite(s):</strong> Completion of General Education requirements and admission to BSW program.</td>
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<td></td>
<td><strong>Description:</strong> Focuses on society at large (social movements, social institutions and social structure), larger environments (physical environment, communities, and formal organizations) and small groups.</td>
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<tr>
<td>SW 302</td>
<td>Social Welfare Institutions, Policies and Services</td>
<td>3</td>
<td>Fall Only</td>
<td>Completion of General Education requirements and admission to BSW program.</td>
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<td><strong>Term Typically Offered:</strong> Fall Only</td>
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<td><strong>Prerequisite(s):</strong> Completion of General Education requirements and admission to BSW program.</td>
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<td><strong>Description:</strong> Explores the historical context and evolution of social welfare policy, and how dominant values and contextual factors shape policy in a broad range of social welfare arenas.</td>
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<td>SW 303</td>
<td>Generalist Practice I</td>
<td>3</td>
<td>Fall Only</td>
<td>Completion of General Education requirements and admission to BSW program.</td>
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<td><strong>Term Typically Offered:</strong> Fall Only</td>
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<td><strong>Description:</strong> Orients students to the helping process and the generalist perspective. Emphasizes systems theory, the ecological model and strengths based perspectives and explores methods of interventions to enhance social functioning.</td>
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<td>For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SW 304</td>
<td>Generalist Practice II</td>
<td>3</td>
<td>Spring Only</td>
<td>Completion of General Education requirements and admission to BSW program.</td>
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<td><strong>Term Typically Offered:</strong> Spring Only</td>
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<td><strong>Prerequisite(s):</strong> SW 303</td>
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<td><strong>Description:</strong> Addresses the development of the knowledge and skills necessary for generalist social work practice with individuals, maintaining the context and relationship with the environment. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SW 315</td>
<td>Mental Health</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Term Typically Offered:</strong> Occasionally Offered</td>
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<td><strong>Prerequisite(s):</strong> Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Description:</strong> This course is designed to familiarize the student with a body of knowledge and the service delivery system known as mental health. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SW 319</td>
<td>Human Behavior and the Social Environment II</td>
<td>3</td>
<td>Fall Only</td>
<td>Completion of General Education requirements and admission to BSW program.</td>
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<td><strong>Term Typically Offered:</strong> Spring Only</td>
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<td><strong>Prerequisite(s):</strong> SW 301</td>
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<td><strong>Description:</strong> Focuses on families, dyads, and the individual person (biological person, psychological person, spiritual person and the lifespan development). For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>SW 322</td>
<td>Issues in Policy and Service Delivery</td>
<td>3</td>
<td>Spring Only</td>
<td>SW 302.</td>
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<td><strong>Term Typically Offered:</strong> Spring Only</td>
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<td><strong>Prerequisite(s):</strong> SW 302</td>
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<td><strong>Description:</strong> Emphasizes the interrelationship between problem conceptualization, policy options, and their impact on social work practice and clients and analyzes these interrelationships in fields of child welfare, health, mental health and aging. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SW 333</td>
<td>Social Work and Human Sexuality</td>
<td>3</td>
<td>Spring, Summer</td>
<td>Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Term Typically Offered:</strong> Spring, Summer</td>
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<td><strong>Prerequisite(s):</strong> Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Description:</strong> This course provides knowledge about physical, behavioral, cognitive, emotional, and spiritual aspects of human sexuality. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>SW 336</td>
<td>Death and Grief</td>
<td>3</td>
<td>Fall Only</td>
<td>Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Term Typically Offered:</strong> Fall Only</td>
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<td><strong>Prerequisite(s):</strong> Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Description:</strong> The main purpose of this course offering is to prepare bachelor’s and master’s level social workers for effective practice with persons experiencing terminal illness as patients, family or caregivers and persons coping with grief and loss. <strong>Note:</strong> HBSE I and II recommended, not required. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>SW 352</td>
<td>Child Abuse and Neglect (Child Maltreatment)</td>
<td>3</td>
<td>Fall Only</td>
<td>Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Term Typically Offered:</strong> Fall Only</td>
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<td><strong>Prerequisite(s):</strong> Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Description:</strong> This course is designed to provide a comprehensive introduction to child abuse and neglect from a social work perspective. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SW 353</td>
<td>Child Abuse Interventions</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> SW 352; restricted to students admitted to Kent School of Social Work BSW students.</td>
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<td><strong>Description:</strong> In this course, students will learn about various practice skills and treatment interventions related to social work with abused/neglected children and their families. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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SW 361. Special Issues in Alcohol and Drug Counseling 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: This course includes highly specialized and advanced topics in addiction treatment to prepare students to begin practice in Alcohol and Drug Counselor training. Content will round out and complete a basic course of study for alcohol and drug counselors that was not adequately addressed in substance abuse and motivational interviewing classes. These advanced topics will 1) generally aid students in submitting the application for certification as alcohol and drug counselors, 2) provide students with required case management training for working in a licensed alcohol and other drug treatment facility, and 3) prepare students for working within multidisciplinary teams and gain familiarity with clinical supervision methods utilized in substance abuse treatment programs. 4) Students will become familiar with the use of the Addiction Severity Index (ASI) a very common assessment tool widely used in substance abuse treatment settings. The complexity and demonstrated efficacy of specialized treatment for substance abuse disorders is well documented and preparation to work with this problem will be valuable across a range of populations; including, but not limited to individuals treated in traditional and non-traditional treatment settings. Evidence based knowledge is progressively improving the effectiveness of treatment. This course will utilize a convergence of knowledge to prepare students for their role in advancing the treatment of alcohol and other drug dependency.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 362. Substance Use and Substance Use Disorders 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: Examines current issues associated with substance abuse. Prevailing paradigms related to substance abuse are explored and pragmatic intervention strategies for dealing with those abusing substances are presented and applied.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 381. Social Gerontology 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: This course is designed to familiarize the students with the complexity of the aging process from the perspective of the individual, the family and society. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 382. Social Work Practice with Older Adults 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: This course will introduce students to the theory and practice of assessment and clinical intervention with older adults. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 384. Spirituality and Social Work 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: This course is offered as an elective course and provides in-depth examination of the meaning of spirituality for social work practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 385. Planning and Community Development 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: Using theories from the behavioral and social sciences, this course will provide students with a basic theoretical, methodological, and skill base in social planning within a context of community development, organization and advocacy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 397. Special Topics in Social Work 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: Selected topics in Social Work. Topics chosen will reflect the needs of the students and the background of the instructor. May be repeated under different subtitles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 405. Generalist Practice III 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SW 303 and SW 304; SW 470 (or concurrent) and SW 472 (or concurrent).
Description: Focuses on mezzo systems. Applications of Social Work values, knowledge and methods with families and small groups is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 406. Generalist Practice IV 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SW 405; SW 471 (or concurrent) and SW 473 (or concurrent).
Description: Engage Social Work skill development and practice in the application of knowledge, skills, and methods to the macro systems of professional practice including neighborhoods, communities and organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 415. Mental Health 3 Units
Description: This course is designed to familiarize the students with the body of knowledge and the service delivery system known as "mental health." The factors of human experience that promote mental health or serve as a barrier to healthy functioning will be examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 426. Introduction to Social Work Research 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SW 304.
Description: Provides students the foundation knowledge for scientific inquiry, covering all aspects of the research process from problem formulation to writing of the research report.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 442. Psychopathology 3 Units
Description: This course examines concepts of labeling theory, stigma, strengths perspective, and the clinical use of diagnostic classification of psychopathology from a social work perspective. The implications of various definitions of psychopathology and the uses of diagnostic systems to inform practice, policy, and promote social justice are considered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 459. Introduction to Family Therapy Practice 3 Units
Description: This course emphasizes understanding assessment, case planning, and intervention in couple and family therapy. The students will be introduced to the major assessment and intervention ideas/skills associated with the major schools of marital family therapy. Skill development will encompass systemic assessment, consensus building, case planning and the tools necessary to conduct an initial interview.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 460. Motivation and Change 3 Units
Description: The course focus is on theory and evidence based practice methods aimed at engaging resistant people in the process of change. Motivational interviewing (MI) is a client-centered, yet directive method for enhancing intrinsic motivation for change. BSW Upper Division Elective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 464. Social Work and the Law 3 Units
Term Typically Offered: Spring, Summer
Prerequisite(s): Restricted to students admitted to Kent School of Social Work BSW program.
Description: This course is designed to: 1) familiarize students with the legal system and the various roles of social workers within the legal arena; 2) increase student understanding of the impact of the legal system on social work clients and client groups; 3) increase student understanding of the interface of the law with professional social work practice; and 4) develop and enhance the skills needed by the professional social worker in situations where social work and the law interface.
Note: Previously taught as SW 364.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 470. Practicum I 6 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall Only
Prerequisite(s): SW 405 (or concurrent) and SW 472 (or concurrent).
Description: Provides an educationally supervised practicum within a human services organization, developing a social work perspective and skills with a range of client systems: individuals, couples, families, groups, organizations and communities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 471. Practicum II 6 Units
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): SW 470; SW 406 (or concurrent) and SW 473 (or concurrent).
Description: Provides an educationally supervised practicum within a human services organization, developing a social work perspective and skills with a range of client systems: individuals, couples, families, groups, organizations and communities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 472. Practicum Seminar and Lab I - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SW 405 (or concurrent) and SW 470 (or concurrent).
Description: Supplements through class discussion, readings, and role play the experiences of the practicum, creating an arena for integration of practice theory and content.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 473. Practicum Seminar and Lab II 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SW 472; SW 406 (or concurrent) and SW 471 (or concurrent).
Description: Supplements through class discussion, readings, role play the experiences of the practicum, creating an arena for integration of practice theory and content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Sociology (SOC)

SOC 201. Introduction to Sociology - SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to the study of human societies. How societies are organized and changed and the implications of social organization on everyday life.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 202. Social Problems - D1, SB
Term Typically Offered: Fall, Spring, Summer
Description: Structural sources and individual experiences of the major contradictions of contemporary societies. Poverty, racial/ethnic conflict, work and occupations, and the environment may be among the topics considered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 203. Introduction to Social Psychology - SB
Term Typically Offered: Fall, Spring
Description: Introduction to the study of the relationship between the individual and society. Focus on growth of self, the behavior of people in groups, and the theories and research that aid understanding these phenomena.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 210. Race in the United States - D1, SB
Term Typically Offered: Fall, Spring
Description: Examines the social processes leading to the development of major racial grouping in the United States. Focuses on racialization in the United States, relationship between assimilation and racialization, and causes and consequences of the social construction of race.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 301. Introduction to Social Statistics
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of General Education Quantitative Reasoning Requirement.
Description: Statistical concepts used in the social sciences: descriptive statistics, probability, sampling, hypothesis testing, estimation, regression and correlation, categorical data analysis, and statistical control.
Note: Credit may not be earned for this course and MATH 109, PSYC 301, BSTA 201, BSTA 301, or CJ 326.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 302. Social Theory - WR
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SOC 201.
Description: General introduction to the classical origins and modern forms of social theory; examination of the major and influential schools of social theory.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 303. Introduction to Research Methods - WR
Term Typically Offered: Fall, Spring, Summer
Description: An overview of research methods commonly used in Sociology. Elements of quantitative research design, the logic of inquiry, and ethical issues.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 305. Urban Sociology
Term Typically Offered: Fall, Spring
Description: An introduction to the sociology of urban areas, including the study of how humans organize their lives in cities; analysis of the form and development of cities; and review of theories and research that aid understanding these phenomena.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 306. Demography
Term Typically Offered: Occasionally Offered
Description: An introduction to the major theories, data sources, concepts, and measures of demography. Topics include population size, population growth, population composition, population distribution, fertility, mortality, and migration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 307. Rural Sociology
Term Typically Offered: Spring Only
Description: Analysis of social change in rural areas of the United States, including social structure, demographic characteristics, mobility, and value orientations of rural people.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 315. Environmental Sociology
Term Typically Offered: Fall, Spring
Description: Problem identification, policy formulation, and agenda implementation examined from an environmental and developmental perspective. Review of institutions, processes, and social conflict.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 320. Social Theory - WR
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SOC 201.
Description: General introduction to the classical origins and modern forms of social theory; examination of the major and influential schools of social theory.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 323. Diversity and Inequality
Term Typically Offered: Fall, Spring, Summer
Description: Dimensions, sources, and problems associated with social inequality. Includes discussions of social class, gender, and race/ethnicity. Focus on American society, with international phenomena also considered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 325. Sociology of Human Sexuality
Term Typically Offered: Fall, Spring, Summer
Description: Examines human sexuality from historical and cross-cultural perspectives, with a focus on the structural and cultural foundations of sexual expression in the United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 327. Sociology of Gender  
Term Typically Offered: Fall, Spring, Summer  
Description: Examines the differential status of women and men in all major social institutions and explores the structural foundations and theoretical explanations of gender inequality.  
Note: Cross-listed with WGST 313.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 329. Sociology of Families  
Term Typically Offered: Fall, Spring, Summer  
Description: Examines structural foundations, theoretical explanations, and historical and cross-cultural patterns of family formation to inform an understanding of trends in family form and function in the United States. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 334. Sociology of Deviant Behavior  
Term Typically Offered: Spring, Summer  
Description: Study of theoretical and empirical approaches to the analysis of deviance. Among those theories to be reviewed are labeling theory, phenomenology, ecological theory, and conflict theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 336. Criminology  
Term Typically Offered: Fall Only  
Description: Study of crime emphasizing definition and causation of criminal behavior, crime reporting, occupational crime, professional and organized crime, and treatment of offenders. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 337. Motherhood and the Law  
Term Typically Offered: Occasionally Offered  
Description: This course will examine the various ways the legal system impacts and regulates mothers. Students will critically analyze the effect court decisions and laws have on mothers using an intersectional approach (as developed by Kimberle Crenshaw). The course begins with setting a theoretical framework - built on both theories of motherhood and legal analysis - and from there will study the interplay between the law and motherhood, from reproductive rights through raising children. This course is designed to give students an understanding of how the justice system impacts mothers' lives, maintains systems of inequality, and regulates their bodies.  
Note: Crosslisted with WGST 337.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 339. Black Women and the Criminology System  
Term Typically Offered: Occasionally Offered  
Description: Black Women in the Criminal Justice System will examine the various ways the legal system impacts and regulates Black women. Students will critically analyze the effect court decisions and laws have on Black women using an intersectional approach of race, gender, economic class, differently abled bodies, sexual orientation, religion, and nationality. Students will first study legal standards and terminology as well as race and gender theory to develop a solid foundation on which to examine case law, constitutional standards and current events. This course is designed to give students an understanding of how the justice system impacts Black women's lives, maintains systems of inequality, and regulates their bodies. We will look at women lead the criminal justice reform movement both within and outside of the legal system.  
Note: Cross-listed with WGST 339 and PAS 339.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 340. Mental Health and Illness  
Term Typically Offered: Occasionally Offered  
Description: Sociological perspective and analysis of the nature, development, identification, and treatment of mental illness. Examines the convergence of sociology, psychiatry, and psychology within the context of contemporary treatment systems. Explores prevalence and incidence rates of psychiatric disorders with particular attention given to the effects of social inequality on psychological well-being. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 342. Medical Sociology  
Term Typically Offered: Occasionally Offered  
Description: Sociological perspectives on the distribution and etiology of disease, differential response to illness, medical care and its organization, mortality, the hospital as an institution, medical education, and health policy and politics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 343. Sociology of Women's Health  
Term Typically Offered: Occasionally Offered  
Description: Introduces key theoretical and substantive issues in the sociology of women's health and healing. Draws from feminist theories and their intersections with critical perspectives on gender, race/ethnicity, social structure, power and medicine; attention to social and cultural factors in the U.S. and abroad.  
Note: Cross-listed with WGST 312.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Note</th>
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</thead>
<tbody>
<tr>
<td>SOC 344</td>
<td>Sociology of Music in Contemporary America</td>
<td>3</td>
<td>Fall Only</td>
<td><strong>Description:</strong> Application of sociological perspective to various American musical subcultures, e.g., pop, rock, jazz, classical. Analysis of social organization, economic and commercial aspects, socialization and career mobility of musicians, structure of performing groups and their audiences, and trends in musical taste. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>Note:</strong> Cross-listed with PAS 392/WGST 343. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SOC 346</td>
<td>Sociology of Religion</td>
<td>3</td>
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<td><strong>Description:</strong> Study of religion as a product of collective human endeavor, as a social institution; functions, types, and structures of religious organizations and conduct; relationships between religion and other aspects of sociocultural and class existence. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>Note:</strong> Approved for the Arts and Sciences upper-level requirement in written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>Prerequisite(s):</strong> 18 hours in sociology, including 9 hours in the core; 3.5 GPA in Sociology; 3.0 GPA overall. <strong>Description:</strong> Student must have program approved by instructor, chairperson, and dean before registration. <strong>Note:</strong> Course form available in Advising Center.</td>
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<tr>
<td>SOC 350</td>
<td>Special Topics in Sociology</td>
<td>3</td>
<td>Fall, Spring</td>
<td><strong>Description:</strong> Exploration of well-defined topics in sociology not treated in regular courses. Topics will be announced in Schedule of Courses. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SOC 374</td>
<td>Money, Economics and Society - WR</td>
<td>3</td>
<td>Fall Odd Years</td>
<td><strong>Description:</strong> The economy as a social institution; sociological theories of the development of capitalism; historical development of industrialization; labor-management relations; trade unions; the service economy; globalization. <strong>Note:</strong> Approved for the Arts and Sciences upper-level requirement in written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>Prerequisite(s):</strong> SOC 201 and SOC 323; 90 credit hours; Sociology major; or consent of instructor. <strong>Description:</strong> Investigation of issues and topics related to voluntary activity. Includes contact with voluntary organization in the local community.</td>
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<tr>
<td>SOC 380</td>
<td>Animals and Society</td>
<td>3</td>
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<td><strong>Description:</strong> This course examines human-animal interaction (or anthrozoology) as a means of studying society and will seek to address what the human-animal relationship reveals about society and how the ambivalent and controversial roles of animals are socially constructed. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>Prerequisite(s):</strong> SOC 201, SOC 301, and SOC 303; or consent of undergraduate coordinator. <strong>Description:</strong> Techniques for adapting research methodologies and skills to applied concerns and settings. Development of skills that are applicable to the examination of social issues and concerns.</td>
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<tr>
<td>SOC 392</td>
<td>Faces of Global Poverty - WR</td>
<td>3</td>
<td>Occasionally Offered</td>
<td><strong>Description:</strong> Persistent poverty in the Third World and specific groups in the U.S. Focuses on the causes, consequences, solutions and survival strategies. <strong>Note:</strong> Cross-listed with PAS 392/WGST 343. <strong>Note:</strong> Approved for the Arts &amp; Sciences upper-level requirement in written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SOC 394</td>
<td>Globalization, Culture and Third-World Development</td>
<td>3</td>
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<td><strong>Description:</strong> Examination of the social, economic, political, and ideological aspects of global economic development as they affect and shape the African development experience. <strong>Note:</strong> Cross-listed with PAS 334. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>SOC 400</td>
<td>Independent Study - CUE</td>
<td>3</td>
<td>Fall, Winter</td>
<td><strong>Term Typically Offered:</strong> Fall, Spring, Summer <strong>Prerequisite(s):</strong> 18 hours in sociology, including 9 hours in the core; 3.5 GPA in Sociology; 3.0 GPA overall. <strong>Description:</strong> Student must have program approved by instructor, chairperson, and dean before registration. <strong>Note:</strong> Approved for the Arts and Sciences upper-level requirement in written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>SOC 405</td>
<td>Voluntarism - CUE</td>
<td>3</td>
<td>Occasionally Offered</td>
<td><strong>Term Typically Offered:</strong> Occasionally Offered <strong>Prerequisite(s):</strong> SOC 201 and SOC 323; 90 credit hours; Sociology major; or consent of instructor. <strong>Description:</strong> Investigation of issues and topics related to voluntary activity. Includes contact with voluntary organization in the local community.</td>
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<tr>
<td>SOC 406</td>
<td>Applied Sociology - CUE</td>
<td>3</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring, Summer <strong>Prerequisite(s):</strong> SOC 201, SOC 301, and SOC 303; or consent of undergraduate coordinator. <strong>Description:</strong> Techniques for adapting research methodologies and skills to applied concerns and settings. Development of skills that are applicable to the examination of social issues and concerns.</td>
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For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 410. Sociology of Aging - CUE  
Term Typically Offered: Spring Only  
Prerequisite(s): SOC 201 and SOC 323; 9 hours at the 300+ level in one social science; or permission of instructor.  
Description: Human aging as a process emergent from the interaction of personal and social systems; social implications of living arrangements, family networks, health status, and community roles.  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 415. Sociology of Death & Dying - CUE  
3 Units  
Term Typically Offered: Summer Only  
Prerequisite(s): SOC 201 and SOC 323; or 9 hours at 300+ level in one social science; or consent of instructor.  
Description: Examines thanatology (the study of death, dying, and bereavement) from a sociological perspective, exploring how death, dying, and bereavement are socially constructed in the United States.  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 416. Sexual Assault and the Legal System  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: Sexual Assault and the Legal System is designed to give students an understanding of how rape culture impacts the justice system, and vice versa. Students will critically analyze the affect stories about sexual assault have on the legal system using an intersectional approach of race, gender, economic class, differently abled bodies, sexual orientation, religion, and nationality. Students will first study legal standards and terminology as well as critical race and feminist theory to develop a solid foundation on which to examine case law, constitutional standards and current events.  
Note: Cross-listed with WGST 416.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 417. Reproductive Justice  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: In this course Reproductive Justice and the Law, we will examine how the legal system impacts reproductive justice. We will break down the term reproductive justice and how it differs from reproductive rights. We will discuss the complex political, social, religious, and cultural dynamics that make reproductive justice one of the most controversial, and pressing, issues of our time.  
Note: Cross-listed with WGST 417.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 418. Domestic Violence  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: This course will examine the ways the legal system shapes and enforces domestic violence law. We will examine the jurisprudence behind criminal law in general and legal foundation of domestic violence laws in particular. We will examine not only the history of domestic violence, but also the human element, studying the role of individual discretion and how neuroscience illuminates why outcomes for individuals can vary so greatly within the same legal system. We will study specific laws (ex: mandatory arrest) and we will apply an intersectional lens to all topics discussed. This class ultimately asks if the legal system is even capable of addressing the social harm of domestic violence, and if that answer is yes, how this is to be accomplished.  
Note: Cross-listed with WGST 418.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 420. Sociology of Sport  
3 Units  
Term Typically Offered: Fall, Spring  
Prerequisite(s): SOC 320; or Sport Administration (SPAD) major or minor; or consent of instructor.  
Description: Examines race, gender, social class, and other factors as they affect sport in society.  
Note: Cross-listed with SPAD 391.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 425. Sociology of Leisure - CUE  
3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): SOC 201 and SOC 323; or nine hours at the 300+ level in one social science; or consent of the instructor.  
Description: This course offers a sociological examination of how leisure interacts with gender, race and ethnicity, age, social class and other important social characteristics. It also considers how social theories, some unique to leisure studies, can be applied to key topics in the field, such as socialization into and through leisure activities, how leisure shapes well-being, the commodification of leisure, and tourism.  
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 435. Medicine, Health and Illness - CUE  3 Units
Term Typically Offered: Fall Even Years
Prerequisite(s): SOC 201 and SOC 323; or 9 hours at 300+ level in one social science; or consent of instructor.
Description: This course introduces the student to the study of medical sociology and examines the different ways in which social groups experience health and illness at the micro-level (through face-to-face and small-to mid sized group interactions). Course material will explore how experiences of health and illness are shaped by life experiences, including class, race/ethnicity and gender.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 440. The Health Care System - CUE  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): SOC 201 and SOC 323; and 9 hours at the 300+ level in one social science; or consent of instructor.
Description: Overview of medical sociology, focusing on the sociohistorical development of health care systems and institutions in the United States. Relevant health care policies will also be examined.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 442. Sociology of Disabilities  3 Units
Prerequisite(s): 9 hours at 300+ level in one social science; or consent of instructor.
Description: Sociological perspectives on medicine, culture, and science are used to examine the meanings, experiences, demographics, and impacts of disability in historical and contemporary social contexts. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 450. Special Topics in Sociology - CUE  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Nine credit hours in core or consent of instructor.
Description: Exploration of well-defined topics in sociology not treated in regular courses. Topics will be announced in Schedule of Courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 453. Social Change  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SOC 201 and SOC 320; or consent of instructor.
Description: Examines social change from a sociological perspective; explores theories, spheres, patterns, consequences of change; involves students in field study of actual case of change in local community or region.
Note: Cross-listed with SCHG 453.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 454. Social Stratification - CUE, WR  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SOC 201, SOC 320, and SOC 323; or 9 hours at 300+ level in one social science; or consent of instructor.
Description: Analysis of systems of the distribution of power, property, privilege, and prestige in human communities and societies. Comparison of alternate theories of the nature of distributive systems.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 455. Occupations and Organizations - CUE, WR  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SOC 201, SOC 320, and SOC 323; or consent of instructor.
Description: Examines historical forces which have shaped the social division of labor, various structural arrangements in the workplace, and current occupational trends.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 456. Gender and Work  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): SOC 201 and SOC 320; or 9 hours at 300+ level in one social science; or consent of undergraduate instructor.
Description: The structural position of gender in the workplace; examination of changes, current trends, and difference in gender socialization for work.
Note: Cross-listed with WGST 414.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 458. Women: International Perspective 3 Units
Prerequisite(s): SOC 201 and SOC 327; or 9 hours at 300+ level in one social science; or consent of instructor.
Description: Examination of major social concerns of women around the world, such as issues related to labor and slavery, sex trafficking, religion, media representation, health, education, political involvement, and violence against women.
Note: Cross-listed with WGST 458.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 460. Gender in the Middle East 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SOC 201 and SOC 327; or 9 hours at 300+ level in one social science; or consent of instructor.
Description: This course examines the ways in which gender shapes, and is shaped, by social, political, economic, and cultural processes in the Middle East.
Note: Cross-listed with WGST 460.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 464. Race and Ethnicity - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SOC 201, SOC 320, and SOC 323; or 9 hours at 300+ level in one social science; or consent of instructor.
Description: Inter-group relations in multi-racial/multi-ethnic societies. Historical and social origins of racism as a system and an ideology.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 470. Political Sociology - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SOC 320; 9 hours at the 300+ level in one social sciences, or consent of instructor.
Description: Focuses on the theoretical and empirical issues pertaining to the relationship between political processes, political structures, the state, and society.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 472. Sociology of Education - CUE, WR 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SOC 201, SOC 303, and SOC 323; or consent of instructor.
Description: The historical development of education as a social institution and as an instrument of socialization and cultural diffusion. The course examines issues which may include power relations, tracking, innovation, cultural diversity, and other social processes.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 480. Juvenile Delinquency 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SOC 201 and SOC 323, or 9 hours at 300+ level in one social science; or consent of instructor.
Description: The nature and extent of juvenile delinquency, including causation, control of delinquency, and methods of delinquency research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 498. Honors Thesis - WR 1 Unit
Prerequisite(s): Sociology major; having earned at least 75 hours; have earned at least 18 hours in Sociology, including SOC 303 and SOC 320; 3.5 GPA in sociology; 3.0 GPA overall.
Description: Original theoretical or empirical work in the field of sociology.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 499. Senior Honors Thesis - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Sociology major; having earned at least 75 credit hours; at least 18 hours in Sociology, including SOC 303 and SOC 320; 3.5 GPA in Sociology; 3.0 GPA overall.
Description: Original theoretical or empirical work in the field of Sociology.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 500. Special Topics 3 Units
Prerequisite(s): Nine hours of core courses or consent of instructor.
Description: Exploration of well-defined topics in Sociology not treated in regular courses. Topic will be announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 512. Gender, Race, Work, and Welfare 3 Units
Prerequisite(s): 9 hours of social sciences work at the 300 level or above; consent of instructor.
Description: Introduction to theory and research on labor market and welfare state with focus on gender, race/ethnicity as they influence women's experiences of and ideas about work and welfare.
Note: Cross-listed with WGST 512 and PAS 512.
Note: Credit may not be earned for both SOC 512/WGST 512/PAS 512 and SOC 612/WGST 612/PAS 612.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 530. Visual Sociology 3 Units
Prerequisite(s): Permission of instructor required.
Description: A field-oriented, laboratory-based course using the camera as a tool in studying and documenting selected elements of the rich and complex social environment.
Note: Students must have a 35mm SLR camera.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Spanish (SPAN)

SPAN 000. Spanish Study Abroad 1-30 Units
Term Typically Offered: Fall Only
Prerequisite(s): Participation in the University of Louisville Language Study Abroad Program and/or programs conducted by the International Center.
Description: Credit awarded to students who have successfully completed the program. Upon return, the student will be required to demonstrate proficiency at a level agreed upon by the Department of Classical and Modern Languages prior to departure.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 121. Spanish Language and Culture for Low Beginners I 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Placement score below 250 on the WebCAPE Spanish placement exam or no previous study of the language.
Description: An introduction to the fundamental elements of the Spanish language within a cultural context. Emphasis is on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond to familiar topics in spoken and written Spanish as well as demonstrate cultural awareness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 122. Spanish Language and Culture for Low Beginners II 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SPAN 121 or equivalent.
Description: A continuation of SPAN 121 with a focus on the fundamental elements of the Spanish language within a cultural context. Emphasis is on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and should be able to demonstrate further cultural awareness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 123. Spanish Language and Culture in Review 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of SPAN 122 or equivalent or placement score between 250-369 on the WebCAPE Spanish placement exam or score of 125 on the Spanish Heritage Language test.
Description: Application of basic language skills to build competence in speaking, listening, reading and writing ability. Development of intercultural competence as a means to a deeper understanding of the peoples and cultures of the Hispanic world as revealed in film, text and traditions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 125. Basic Spanish for Heritage Learners 4 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Score of 125 on the Spanish Heritage Language test.
Description: Designed for students from a Spanish-speaking background.
Basic level Spanish course that builds on and expands the knowledge and skills that Heritage Learners bring to the language classroom.
Note: Credit cannot be earned for both SPAN 125 and SPAN 123.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 141. Intensive Spanish I 6 Units
Term Typically Offered: Summer Only
Prerequisite(s): Placement score below 295 or no previous study of the language.
Description: Development of the four language skills: understanding, speaking, reading and writing.
Note: Not counted toward major.
Note: For beginners.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 142. Intensive Spanish II 6 Units
Term Typically Offered: Summer Only
Prerequisite(s): SPAN 141 or equivalent.
Description: Continuation of SPAN 141.
Note: Not counted toward major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAN 201. Intermediate Spanish I 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Completion of SPAN 123 or SPAN 142 or equivalent or score between 370-439 on the WebCAPE Spanish placement exam or score of 205 on the Spanish Heritage Language Test.
Description: Consolidation and review of language skills to improve speaking, listening, reading and writing ability. Introduction to Hispanic culture and ethnicity within a global context as revealed in film and text.
Note: formerly SPAN 301.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 202. Intermediate Spanish II 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 201.
Description: Continuation of SPAN 201.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 205. Intensive Intermediate Spanish for Heritage Learners 6 Units
Prerequisite(s): Completion of SPAN 125 or score of 205 on the Spanish Heritage Language Test.
Description: Designed for students from a Spanish-speaking background. An intensive intermediate level course that provides heritage learners with the opportunity to expand their proficiency for language use in a wide variety of situations.
Note: Credit cannot be earned for SPAN 205 and SPAN 201.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 301. Spanish Pronunciation 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Completion of or enrollment in SPAN 202.
Description: An introduction in the study of Spanish phonetics with emphasis on practical exercises for improving students’ pronunciation of Spanish.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 305. Spanish Grammar in Context 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 202 (or concurrently) or placement score of 440-650.
Description: Instruction and practice in the complex structural patterns of Spanish as studied in context.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 310. Readings and Writing in Spanish I 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 202 or placement score of 440-650.
Description: Readings from texts that discuss or embody Hispanic culture, and writing based on those readings.
Note: Completion of or enrollment in SPAN 305 is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 311. Cultural Readings and Writing in Spanish II 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 305 and SPAN 310.
Description: Readings from texts that discuss or embody Hispanic culture, and writing based on those readings.
Note: Continuation of SPAN 310.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 320. Spanish Conversation in the Community 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): SPAN 321 and SPAN 322.
Description: Study of an aspect of Spanish or Spanish American literature, culture and/or language.
Note: May be repeated once for credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 321. Communication and Conversation in Spanish 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SPAN 305 and SPAN 310.
Description: Intensive practice of spoken Spanish. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 322. Spanish for the Workplace 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SPAN 202 or permission of instructor.
Description: Business vocabulary, correspondence, practices, regulations. Cultural, political, and historical factors affecting business in Spanish-speaking countries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 323. Spanish Conversation in the Community 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SPAN 305 and SPAN 310.
Description: Intensive practice of spoken Spanish. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 324. Bridging Linguistic Registers for Heritage Learners of Spanish 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Completion of SPAN 205 or score of 325 on the Spanish Heritage Language Test.
Description: Designed to expose heritage learners of Spanish to the functional structures of language and the wide varieties of linguistic register as means of further developing communicative skills in Spanish.
Note: Credit cannot be earned for SPAN 325 and SPAN 305 or SPAN 321.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAN 335. Advanced Spanish for Heritage Learners 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Completion of SPAN 205 or score of 325 on the Spanish Heritage Language Test.
Description: Designed to continue development of writing, reading, and critical thinking skills of Heritage Learners.
Note: Credit cannot be earned for SPAN 335 and SPAN 310 or SPAN 311.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 401. Foundations of Spanish Civilization 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SPAN 311 and SPAN 321; or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: Survey of Spanish civilization from prehistory to the rise of the Spanish empire, with special emphasis on the multicultural environment of medieval Iberia.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 402. Cultural and Literary Perspectives on Modern Spain 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SPAN 311 and SPAN 321; or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: Study of salient characteristics of modern Spanish culture and key literary movements and authors from the 17th century to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 403. Foundations of Latin American Nations and Identities 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SPAN 311 and SPAN 321; or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: Development of Latin American culture, arts and literature from the Colonial Period through the 19th Century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 404. Cultural and Literary Perspectives on Modern Latin America 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SPAN 311 and SPAN 321; or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: Study of the development of Latin American culture, arts, and literature from the 20th century to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 405. Introduction to Literary Analysis 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 311 and SPAN 321; or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: The basic tools of textual analysis. Development of the ability to discuss literature in a critical manner through the study of its three most representative genres: fiction, poetry and drama. An introduction to basic theoretical approaches to literary texts and the technical terminology needed to articulate textual responses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 422. Spanish Phonetics 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SPAN 311 and SPAN 321; and one 400-level course in Spanish (or concurrently).
Description: Critical examination of articulatory phonetics and phonological processes with special emphasis on Spanish/English contrastive analysis. Introductory analysis of and practice in the Spanish sound system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 440. Community Internship 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SPAN 311 and SPAN 321, and permission of instructor.
Description: An individually arranged internship that allows majors and minors to practice their language skills while enhancing their knowledge of culture as well as practical and critical thinking skills. Students work for a total of 80 approved hours per semester and complete accompanying academic work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 460. Advanced Spanish Skills Through Translation - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): SPAN 311 and SPAN 321, and 6 hours at the 400 level in Spanish.
Description: Advanced oral and written skills in Spanish, with emphasis on the translation of a wide variety of texts.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAN 490. Spanish Capstone Seminar - CUE, WR  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior standing and completion of 6 hours in Spanish at the 400 level or above.
Description: In-depth examination of an area of Hispanic Studies.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE: This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 491. Undergraduate Research - WR  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing and faculty consent.
Description: An intensive examination of a topical area in Hispanic Studies undertaken with a designated faculty advisor.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 499. Special Topics in Spanish Culture, Literature and Linguistics  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 311 and SPAN 321.
Description: Intense investigation of an aspect of Hispanic culture, arts, literature, and/or linguistics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 500. Spanish Study Abroad  1-15 Units
Prerequisite(s): Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.
Description: Credit awarded upon demonstration of successful completion of program undertaken with prior approval of the department, including a paper or project and an oral or written examination in the language and culture, administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 511. Studies in Spanish Medieval Literature  3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Special studies in the original language of selected works from the medieval period.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 513. Studies in Spanish Golden Age Literature  3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Intensive study of significant works of the Spanish Golden Age.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 516. Literary Influences in Nineteenth-Century Spanish  3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Study of significant writers of the Spanish Romantic, Realistic, and Naturalistic periods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 518. Studies in Twentieth-Century Literature of Spain  3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Study in depth of significant works of the Post-Civil War period.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 524. Introduction to Hispanic Linguistics  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 311 and SPAN 321, or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: Introduction to basic linguistic concepts, exploration of communicative strategies, and investigation of Hispanic culture and dialectology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 527. Latin American Literature: Colonial Period through 19th Century  3 Units
Prerequisite(s): SPAN 355, SPAN 403, or SPAN 404, or consent of instructor.
Description: Study of significant literary works from the Colonial Period through 19th Century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 528. Contemporary Spanish-American Theatre  3 Units
Prerequisite(s): SPAN 355, SPAN 403, or SPAN 404, or consent of instructor.
Description: Major trends and authors in Spanish-American theatre since c. 1950. Critical methodology for theatre.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 529. Spanish-American Poetry  3 Units
Prerequisite(s): SPAN 355, SPAN 403, or SPAN 404, or consent of instructor.
Description: Selected Spanish-American poets, movements and national traditions. Critical methodological theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 530. Spanish-American Narrative  3 Units
Prerequisite(s): SPAN 355, SPAN 403 or SPAN 404 or consent of instructor.
Description: Selected Spanish-American novelists and short story writers, movements and national traditions. Critical methodological theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAN 544. Advanced Grammar and Stylistics  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): SPAN 311, SPAN 321, and 6 hours at the 400 level in Spanish.  
Description: An intensive review of the more problematic aspects of Spanish grammar (including prepositions, subjunctive, conditional sentences, relative clauses, spelling, punctuation); a reflection on the nature and functions of written language; and a hands-on-workshop on achieving clarity and grace in written texts.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 554. Hispanic Culture through Film and Media  
Prerequisite(s): SPAN 401, SPAN 402, SPAN 403, or SPAN 404; or consent of instructor; admission to the Spanish MA program.  
Description: Study of specific/selected issues focusing on the Hispanic cultural milieu; its multiracial values and means of communication as manifested in the visual and print media (film, television, newspapers, documentaries, etc.)  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 561. Independent Study  
Prerequisite(s): Consent of department.  
Description: Independent study in areas not covered in the regular curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 570. Basic Interpreting Skills  
Term Typically Offered: Summer Only  
Prerequisite(s): SPAN 311 and SPAN 321 (or SPAN 325 and SPAN 335); and 6 hours at the 400 level; or consent of instructor.  
Description: Provides an overview of the theoretical and practical foundations of Interpreting in community settings, including legal, health, education and social settings; intensive practice in consecutive interpreting, sight translation and basic simultaneous interpreting.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 599. Special Topics  
Prerequisite(s): Consent of instructor.  
Description: Topics of a unique or specialized nature in Spanish language, literature or culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 180. The Sport Spectator Experience  
Description: This course presents an overview of the sport industry from the perspective of the fan/spectator.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Sport Administration (SPAD)

SPAD 281. Principles of Sport Administration  
Term Typically Offered: Fall, Spring, Summer  
Description: Principles and theory of administration and management as they apply to the administration and management of sport, fitness, leisure, and recreation services, and programs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 284. Issues and Ethics in Sport  
Term Typically Offered: Fall, Spring, Summer  
Description: This course will examine relevant issues and trends in sport administration.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 360. Administration of Intramural Activities  
Term Typically Offered: Fall, Spring, Summer  
Description: History, present status, objectives, units of competition, program of activities, rules and regulations, awards, and administrative problems related to administration of intramural activities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 369. Directed Readings in Sport Administration  
Prerequisite(s): Consent of instructor.  
Description: Supervised readings pertaining to a research topic in Sport Administration.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 382. Sport Management and Leadership  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Admission to the College of Education and Human Development or College of Business or officially accepted as a Sport Administration minor.  
Description: This course is designed to expand the student’s understanding of various management theories, research, and their application to sport organization and administration.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 383. Sport Marketing  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Admission to the College of Education and Human Development or College of Business or officially accepted as a Sport Administration minor.  
Description: The application of the principles of promotion and marketing to the sport and fitness industry including the areas of professional sports, corporate fitness, college/high school athletics, clubs and resorts, and more.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAD 390. Sport Governance 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAD 281; and admission to the College of Education and Human Development or College of Business or officially accepted as a Sport Administration minor.
Description: The course is designed to provide knowledge and awareness of the rules and laws governing various sports organizations as well as participants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 391. Sociology of Sport 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SOC 320; or Sport Administration major or minor; or consent of instructor.
Description: Examines race, gender, social class, and other factors as they affect sport in society.
Note: Cross-listed with SOC 420.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 401. Career Development in Sport Administration 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SPAD 383; admitted as a Sport Administration major; and one other 3-hour SPAD course.
Description: This course is designed to provide the student an orientation on the professional careers within the sport industry. The course is designed to prepare the student for an internship or full-time employment with a sport organization. This course will assist students to develop industry knowledge and professional development for a career in the sport industry. This will provide career counseling, supervised practicum and volunteer experiences and extended opportunity for students to develop their professional network.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 402. Internship in Sport Administration - CUE 3-4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to Sport Administration major, SPAD 401.
Description: An individually arranged course combining work experience with a related academic or creative project.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 403. Field Experience in Sport Administration 1-3 Units
Prerequisite(s): Degree status; completion of 21 hours toward degree; completion of 6 hours of Sport Administration courses.
Description: Supervised practical work experience in an organization or business related to the student’s academic field area of specialization or career interest.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 404. Financial Principles in Sport 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Sport Administration major or consent of instructor.
Description: Examines basic financial and managerial accounting concepts necessary to be financially literate in the business of sport. Analysis into the understanding of corporate annual reports in the sport industry will further equip the student with essential management tools while providing the student with an overview of the financial strengths and weaknesses of various sporting goods manufacturing companies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 405. Sport Facility Management 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to Sport Administration major or consent of instructor.
Description: Investigates the design and development of various athletic facilities in diverse settings. Examines corporate, community, and commercial facilities for strengths and weaknesses in design and management procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 445. Sport Communication 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to Sport Administration major or instructor permission.
Description: The purpose of this course is two-fold: 1) to explore sport communication theories and how they relate to current issues and topics within the sport communication realm, particularly as they address mass media communication and the larger sport environment; and 2) to examine more practical concepts, activities, and behaviors related to sport communication and apply them to professional and collegiate sports.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 480. Athletics in Higher Education 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to Sport Administration major or consent of instructor.
Description: Examination of the historical development of athletics within American institutions of higher learning with an emphasis upon concept and ideas that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAD 489. Legal Aspects of Sport 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to Sport Administration major or consent of instructor.
Description: The exploration of litigation has mandated that sport administrators be able to discern potential areas of liability. This course will inform those in sport administration, athletics, physical education, and recreation of legal duties and responsibilities, legal rights, liability prevention, alternatives to litigation and actions to pursue if involved in a suit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 490. Senior Seminar in Sport Business 3 Units
Term Typically Offered: Fall
Prerequisite(s): SPAD 382, SPAD 383, and SPAD 390; and Sport Administration major.
Description: Analysis of the sport industry since 1945. Emphasis on specific segments ranging from professional sport and intercollegiate athletics to the sport club industry and sporting goods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 509. International Sport 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course is designed to examine sport from an international perspective, identifying differences in governance and social issues affecting sport managers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 510. Entrepreneurship in Sport Business 3 Units
Prerequisite(s): Junior Standing or consent of instructor.
Description: This course will provide an analysis of entrepreneurship in sport and the sport industry. Emphasis will be placed on the structure and framework of entrepreneurial endeavors and the theory and practice on entrepreneurs in sport.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 521. Independent Study in Sport Administration 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Independent examination of selected topic(s) in Sport Administration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 524. Management of Professional Baseball 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course is designed to examine the professional baseball segment of the sport industry from a managerial perspective, identifying the sports history, governance structures, and the social issues affecting sport managers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 525. Sport Event Planning and Management 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course is designed to introduce students to principles and practices of planning, funding, operating, and evaluating events within the sport industry. This course includes actual hands-on involvement with event planning and management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 529. Women and Sport 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior standing or consent of instructor.
Description: An effort to understand the role of the American woman in sport. Studies concepts about women, sport, and society in contemporary and historical perspectives.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 536. Sport Administration in Nonprofit Organizations 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course provides a comprehensive introduction to the principles of management and their practical applications to sport, leisure and recreation organizations in the nonprofit sector.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 551. Special Topics in Sport Administration 1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior standing or consent of instructor.
Description: Selected projects of interest to Sport Administration faculty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 571. Sport for Development and Peace 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course will introduce students to sports for social change, often referred to as Sport for Development and Peace (SDP). Through this class, students will develop practical and theoretical knowledge of SDP by learning about key issues and concepts. The goal of the class is for students to develop an understanding of how SDP relates to their future career of choice in the sport industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Sustainability (SUST)

SUST 101. Introduction to Sustainability - SB  3 Units
Term Typically Offered: Fall, Spring, Summer
Description: The study of sustainability is an interdisciplinary activity that examines interrelated environmental, political, economic, and social problems facing humans and society at local, regional and global scales. This course provides an introductory survey of the concepts, values, frameworks, and methodologies that contribute to understanding and responding to problems such as climate change, environmental degradation, and the issues of limited resource allocation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 201. Environmental Management  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): SUST 101.
Description: This course introduces students to major environmental problems in sustainability. Students will examine the biophysical or ecological properties, manifestations, and consequences of these problems at local, regional, and global scales. The course will take particular interest in human-environment interactions, understanding the role different ecosystems and environmental processes play in human well-being, as well as how humans interact with and influence biodiversity, structure, and function of natural systems worldwide. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 202. Behavioral Dimensions of Environmental Decision-Making  3 Units
Prerequisite(s): SUST 101.
Description: This course will examine sustainability through a behavioral lens, exploring the psychological processes, primary research methods, and behavioral solutions involved in environmentally responsible behavior and sustainability. Students will be introduced to key principles of motivation, perception, and decision-making to identify fundamental behavioral obstacles to sustainability. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 301. Sustainable Built Environment  3 Units
Prerequisite(s): SUST 101 and a 200-level SUST course.
Description: The course will explore the issues of sustainability from the perspective of the built environment, our history of construction and expansion, and buildings and how they interact with the natural environment. These issues will be explored from building specific, as well as urban system, perspectives including urban design. Further, the course will focus on identifying and implementing practices that lead to more sustainable man-made modifications of natural environment for human purposes. The course will comprise of a discussion about sustainable sources for energy, water, air, materials for human habitat design and management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 401. Independent Study Sustainability - CUE  1-3 Units
Prerequisite(s): SUST 101, SUST 201, SUST 301, and permission of the instructor.
Description: By making arrangements with a faculty member, students can register for one to three hours of credit in SUST 401 to participate in research relevant to sustainability science or practice.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 402. Policy and Governance in Sustainability - WR  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SUST 101, SUST 201, and SUST 202.
Description: The course will deal with policy making and governance, and explore the impacts of political economy on overall sustainability. Students will examine desired economic conditions, policies, and governance systems that may encourage adoption of best practices in sustainability, including city / county level policy making, state and federal level issues (e.g., EPA, renewable energy incentives), and grassroots political organizing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 403. Sustainable Societal Systems  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SUST 101, SUST 201, and SUST 202.
Description: This course examines sustainability problems and processes as embedded within large social-ecological systems and societal frameworks in the U.S. and globally. Students will examine topics in sustainability from a holistic systems perspective, in which "sustainability" is seen to integrate multiple actors, social systems (e.g., culture, economy, communities, and governance), environmental processes, and built / technological infrastructures at multiple scales to archive human welfare and lasting environmental prosperity (i.e., "social-ecological sustainability").
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 404. Sustainability Internship - CUE  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): SUST 101, SUST 201, SUST 202, SUST 301, and permission of the instructor.
Description: The Sustainability Internship is a culminating learning experience for students to develop critical thinking skills, synthesize lessons learned from the BA in Sustainability, and apply the knowledge to real-world projects or activities in sustainability. Typical Internship sites and clients will include: local government agencies, community-based organizations, business organizations, and university committees or partnerships.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SUST 480. Special Topics in Sustainability 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: Examination of an advanced topic related to sustainability. Topics will vary depending on instructor.
Note: May be repeated for credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 518. Urban Demography and GIS 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): SUST 101; completion of Math/Quantitative Reasoning
General Education requirement; Junior or Senior standing.
Description: A spatial analysis of the distribution, characteristics, growth and change of the population of a metropolitan area.
Note: Cross-listed with PLAN 618 and PADM 621.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SUST 576. Sustainable Social-Ecological Systems 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): SUST 101, SUST 201 or SUST 202; and SUST 301; or consent of instructor.
Description: The course is designed to address the social ecological frameworks for understanding and applying sustainability concepts in both theory and practice.
Note: Cross-listed with PLAN 676, UPA 676, and PADM 676.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Theatre Arts (TA)

TA 207. Enjoyment of Theatre - AH 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: A survey of theatre from its origins to the present, with an emphasis on dramatic literature, and theatrical techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 224. Introduction to Acting as Communication - OC 3 Units
Term Typically Offered: Fall, Spring
Description: This course is an introduction to acting and performance as communication. Students will develop a general performance awareness and effective approaches to speaking in front of a variety of groups throughout the course. Students will demonstrate critical thinking and problem-solving by exploring the link between self and partner/audience. Additionally, students will build and grow themselves in performance and communication through ensemble building, active listening, acting exercises, and creative material development. The semester will culminate in a student conceived, written and performed presentation piece.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 240. Stagecraft I 3 Units
Term Typically Offered: Fall Only
Description: An introduction to aspects of technical theatre, including theatre facilities, scenic production, and production planning. Production work is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 241. Stagecraft II 3 Units
Term Typically Offered: Spring Only
Description: Continuing studies in technical theatre including: scenic production, stage properties, costume construction, stage lighting and sound mechanics, and production & stage management. Production work required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 243. Design Aesthetics - AH 3 Units
Term Typically Offered: Fall Only
Description: This course is designed for students interested in further study into the principles, fundamentals, techniques and process of design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 302. Acting I 3 Units
Term Typically Offered: Fall, Spring
Description: Fundamental techniques of acting, including sensory awareness, imagination, spontaneity, self-discovery through improvisation, and understanding and applying the vocabulary of acting. Culminates in an introduction to scene study.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 321. Acting II 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): TA 320 or TA 322 or equivalent, and permission of instructor.
Description: Techniques of character development and script analysis, stressing scene study in contemporary realistic style.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 322. Acting The Black Experience - AH, D1 3 Units
Term Typically Offered: Fall Only
Description: Fundamental approaches to performance developed through improvisation, call and response, rhythm and movement styles that are drawn from the black experience in America.
Note: Cross-listed with PAS 353.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
TA 324. Acting for Nonmajors 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Survey of basic acting techniques, intended for students who do not anticipate careers in theatre. Does not automatically apply to theatre degree requirements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 326. Cultural Diversity in Performance - AH, D1 3 Units
Term Typically Offered: Fall, Spring
Description: Performance and discussion of selected public and private texts written by American minority writers. Course explores what it means to be part of a culturally diverse society.
Note: Cross-listed with PAS 355.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 330. Directing 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): TA 241 or equivalent, and permission of instructor.
Description: Fundamental techniques of theatre directing, including script analysis and rehearsal methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 340. Introduction to Scene Design 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): TA 240 or faculty consent.
Description: Techniques of scene design, including drafting, rendering, working drawings and set models.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 345. Introduction to Costume Design 3 Units
Term Typically Offered: Fall Only
Description: A survey of clothing styles as they relate to the design of costumes for the stage.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 346. Stage Make-up 3 Units
Term Typically Offered: Occasionally Offered
Description: Basic techniques of design and execution of makeup for the stage.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 349. Introduction to Stage Lighting 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): TA 241 or faculty consent.
Description: Intensive study of modern stage lighting with emphasis on equipment and basic electricity. Production requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 350. Theatre Performance and Production 0.5 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Participation in major productions of Belknap Theatre.
Note: One-half credit per term, to a maximum of 3 credits.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 352. Special Topics in Theatre 1-3 Units
Term Typically Offered: Spring Only
Description: Study of specific areas of theatre arts as announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 357. Introduction to Hip-Hop Theatre - AH, D1, WR 3 Units
Term Typically Offered: Fall, Summer
Description: Exploration of contemporary hip-hop theatre and forerunners of hip-hop culture and art; including its relationship to African-American, American multicultural postmodern styles-through discussion, reading and performance exercises.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 360. Classical to Medieval Theatre History - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105 or equivalent.
Description: The development of theatre and drama from ancient Greece to the age of Shakespeare.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 361. Renaissance to Romantic Theatre History - WR 3 Units
Term Typically Offered: Spring Odd Years
Prerequisite(s): ENGL 102 or ENGL 105 or equivalent.
Description: The development of theatre and drama from the Italian Renaissance to the rise of Realism.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 362. Modern and Contemporary Theatre History 3 Units
Term Typically Offered: Fall Odd Years
Prerequisite(s): ENGL 102, ENGL 105 or equivalent.
Description: Overview of theatrical production and dramatic literature from the rise of realism to the present day.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
TA 363. African-American Women in Theatre - AH, D1, WR 3 Units
Term Typically Offered: Occasionally Offered
Description: This course will explore the theatrical representation of African-American women through the lens of African-American playwrights, designers and theoreticians. Course content will focus on the works of African-American women playwrights, designers and theoreticians and encourage critical discourse on the material covered. Assignments and activities will include script analyses, discussion board posts, research papers, and quizzes. Assignments are designed to strengthen critical thinking skills, encourage perspective broadening dialogue and research, and enhance your understanding of the experience of the African diaspora. (Humanities)
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Cross-listed with PAS 350 and WGST 380.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 365. Theatre of the African World - AH, D2 3 Units
Term Typically Offered: Spring Odd Years
Description: This course is a cross-cultural examination of theatre and performance modes of select cultural and ethnic groups within Africa and the African Diaspora. The material will focus on performance and dramatic scripts by artists from West and South Africa, East Africa, the Caribbean, and the United States. We will investigate the distinctions in the manifestations of "theatre," "drama," and "performance" in Africa and the African Diaspora by means of lectures, play readings, written responses, in-depth discussions, video screenings, student projects, and presentations. (Humanities)
Note: Cross-listed with PAS 315.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 366. History of the African-American Theatre - AH, D1, WR 3 Units
Term Typically Offered: Fall Only
Description: This course will introduce students to the historical, political, and cultural milieu experienced by African Americans and their impact on theatrical expression in theatre and performance.
Note: Cross-listed with PAS 356.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 367. Black Dramatic Literature - AH, D1 3 Units
Term Typically Offered: Occasionally Offered
Description: The primary goal of this course is to accomplish in-depth analyses of selected plays by black dramatists.
Note: Cross-listed with PAS 367.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
TA 451. Cooperative Internship in Theatre Arts  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Completion of at least 30 hours and GPA of at least 3.0.  
Description: An individually-arranged course for applying theatre or speech skills to work experience.  
Note: May count as an elective toward a major in Theatre Arts.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 455. Independent Study  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Departmental consent.  
Description: Practical problems in the art of acting approached in a laboratory setting.  
Note: Meets with TA 530.  
Note: May be repeated.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 520. Acting Workshop  
Prerequisite(s): Consent of instructor.  
Description: Development of physical expressiveness and agility for the stage.  
Note: One section each semester.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 522. Stage Movement II  
Prerequisite(s): Consent of instructor.  
Description: Development of physical expressiveness and agility for the stage.  
Note: One section each semester.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 523. Stage Speech I  
Prerequisite(s): Consent of instructor.  
Description: Development of voice production and articulation for the stage.  
Note: One section each semester.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 524. Stage Speech II  
Prerequisite(s): Consent of instructor.  
Description: Development of voice production and articulation for the stage.  
Note: One section each semester.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 525. Advanced Studies in Acting  
Prerequisite(s): Consent of instructor.  
Description: Group studies in specialized areas of actor training. Two-to-six hours of laboratory work, as announced in Schedule of Courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 526. Tools for a Global Theatre  
Prerequisite(s): Permission of instructor.  
Description: Cultural issues, perspectives, and approaches to theatre in various parts of the world will be addressed using both classical and contemporary texts.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 529. Actors Theatre of Louisville Workshop  
Prerequisite(s): Senior standing or faculty consent.  
Description: Organization of commercial theatre, auditioning techniques, and employment possibilities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 530. Directing Workshop  
Prerequisite(s): Permission of instructor.  
Description: Practical problems in the art of directing approached in a laboratory setting.  
Note: Meets with TA 520.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 532. Advanced Directing the Black Experience  
Prerequisite(s): Permission of instructor.  
Description: Advanced techniques for staging plays from an African-centered perspective.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 533. Stage Management  
Prerequisite(s): Consent of instructor.  
Description: Techniques of production management during audition, rehearsal, and performance. Practical project required.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
TA 540. Problems in Technical Theatre  
**Prerequisite(s):** TA 241.  
**Description:** Topics vary by semester, but may include: A) Welding, B) Sound Design, C) Technical Direction, and/or D) Special Topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 541. Topics: Scene Design  
**Prerequisite(s):** TA 340.  
**Description:** Topics vary by semester, but may include: A) Scene Design, B) Advanced Scene Design, C) Design for the Camera, and/or D) Design for Lyric Theatre. E) Special Topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 543. Scenographic Techniques  
**Prerequisite(s):** TA 340.  
**Description:** Topics vary by semester, but may include: A) CAD for Stage Design, B) Sketching and Rendering - Scenery, C) Scene Painting, and/or D) Special Topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 545. Topics: Costume Design  
**Prerequisite(s):** TA 345.  
**Description:** Topics vary by semester, but may include: A) Advanced Costume Design, B) Costume History, C) Costume Construction, D) Sewing Techniques, E) Sketching and Rendering - Costumes, and/or F) Special Topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 547. Advanced Black Aesthetic on Stage  
**Prerequisite(s):** Permission of instructor.  
**Description:** Exploration of scenic, costume, lighting, and sound design from an Afrocentric perspective. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 549. Topics: Lighting Design  
**Prerequisite(s):** TA 349.  
**Description:** Topics vary by semester, but may include: A. Lighting Design, B. Advanced Lighting Design, and/or C. Special Topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 550. Culminating Undergraduate Experience Practicum - CUE  
**Prerequisite(s):** 90 credit hours.  
**Description:** The Theatre Arts CUE course is an independent project that demonstrates the student’s ability to conceptualize, analyze, communicate and direct, design, perform, manage or otherwise take a leadership role in a work for the stage.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 555. Special Topics in Theatre  
**Prerequisite(s):** Consent of instructor.  
**Description:** Advanced study of specific areas of theatre arts.  
**Note:** May be repeated. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 557. Advanced Hip-Hop Theatre  
**Prerequisite(s):** Consent of instructor.  
**Description:** Advanced exploration of hip-hop theatre and forerunners of hip-hop culture and art—including its relationship to African-American, American multicultural and postmodern styles—through discussion, reading, research and performance exercises.  
**Note:** Undergraduate credit may not be earned for both this course and TA 357. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 560. Directed Study in Theatre History  
**Prerequisite(s):** Consent of instructor.  
**Description:** Survey of theatre history and literature, supplemented with directed reading of secondary sources.  
**Note:** Meets with TA 360-TA 361. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 562. Advanced Black Dramatic Literature  
**Prerequisite(s):** Permission of instructor.  
**Description:** An examination of the drama of selected African-descended writers whose work stands out as exceptional in the realm of dramatic literature. The material will be explored by means of lectures, play readings, written responses, in-depth discussion, videos, student projects and presentations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
TA 563. Advanced African-American Women in Theatre 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor.
Description: Examines the full range of African-American women working in theatre including playwrights, performers, designers, theorists, academics, and directors. Includes examination of plays by women of African descent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 565. Advanced Theatre of the African World 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of Instructor.
Description: Cross-cultural examination of the drama of the African-descended playwrights in the African Diaspora.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 566. Advanced History of African-American Theatre 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor.
Description: Survey of African-American Theatre from 1820 to the present, its relationship to sociopolitical issues in America and its relationship to mainstream American theatre.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 567. Asian Theatre 3 Units
Prerequisite(s): Graduate standing or permission of instructor.
Description: The theatre and drama of Japan, China, and other Asian nations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 571. Playscript Interpretation - WR 3 Units
Prerequisite(s): Permission of instructor.
Description: Advanced techniques of play analysis, emphasizing the theatre artist's response to text.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Women's and Gender Studies (WGST)

WGST 199. Writing in Women's and Gender Studies - WC 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGL 101.
Description: Intermediate college writing course based on the subject and methodology of women's and gender studies.
Note: Credit may not be earned for this course and ENGL 102.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 201. Women In American Culture - D1, SB 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Examination of women's experiences in 19th- and 20th-century America, focusing on issues pertaining to family, religion, economy, politics, law, race and class. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 202. Seeing Gender: Introduction to Gender in Visual Studies - AH, D1 3 Units
Term Typically Offered: Fall, Spring
Description: This course introduces students to the disciplines of Visual Studies and Women's Studies. It explores the many ways in which these fields intersect through a consideration of two primary, related concepts: the social construction of vision and its inverse, the visual construction of the social. The first highlights how humans are conditioned to see the way they do because they are social animals. The latter underscores the fact that it is equally true that social arrangements, such as gender and race, take the forms that they do because humans are seeing animals. This framework allows students to critically engage some of the central questions that have shaped both Visual Studies and Women's & Gender Studies. How does seeing impose itself upon the social construction of gender and other forms of identity, such as racial and sexual identity? What is the relationship between images and words, and how does that relationship affect the politics of how images are used? What are the mechanisms by which vision and visual images become gendered or racialized? Why is visual experience so fraught with anxiety and fantasy? How do visual encounters with other people (and with images and objects) inform the construction of social life as gendered and racialized?
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 203. Gender Issues in Public Dialogue - D1, OC 3 Units
Term Typically Offered: Fall
Description: This course familiarizes students with ways gender issues have been represented in public dialogue. Students analyze speech, acts, and writing that affect public perceptions of gender and practice public speaking on gender issues. (Humanities)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 207. Introduction to Philosophy through Cultural Diversity - AH, D2 3 Units
Term Typically Offered: Fall, Spring
Description: Survey of historical canonical contributions to western philosophy juxtaposed with minority voices to understand how social, economic, and cultural situatedness affect bodies of knowledge.
Note: Cross-listed with PHIL 207 and PAS 207.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 300. Sex, Gender, and Culture 3 Units
Term Typically Offered: Fall Even Years
Prerequisite(s): ANTH 201 or SOC 201 or SOC 202 or any WGST course.
Description: A cross-cultural examination of the interrelationship between biological sex, socially-constructed gender norms, sexuality, and culture. Topics include feminist/gender theory, masculinity, femininity, hermaphroditism, hetero-normative sexuality and homosexuality with emphasis on non-US cultures. (Social Sciences)
Note: Cross-listed with ANTH 309.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 301. Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies 3 Units
Term Typically Offered: Spring Only
Description: Course focuses on defining the field of LGBTQ studies, examining the historical and social contexts of LGBTQ communities as well as the personal, cultural, and political aspects of LGBTQ life. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 303. Humanities and Gender - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Analysis of sex roles as embodied in classic works of philosophy, literature, history, drama, and art in ancient, medieval, modern and contemporary times. (Humanities)
Note: Cross-listed with HUM 331.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 312. Sociology of Women's Health 3 Units
Term Typically Offered: Occasionally Offered
Description: Introduces key theoretical and substantive issues in the sociology of women's health and healing. Draws from feminist theories and their intersections with critical perspectives on gender, race/ethnicity, social structure, power, science and medicine. Attention to social and cultural factors in the U.S. and abroad. (Social Sciences)
Note: Cross-listed with SOC 343.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 313. Sociology of Gender 3 Units
Term Typically Offered: Fall, Spring
Description: Examines the differential status of women and men in all major social institutions and explores the structural foundations and theoretical explanations of gender inequality. (Social Sciences)
Note: Cross-listed with SOC 327.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 316. Gender, Sexuality & Law 3 Units
Prerequisite(s): POLS 201 or instructor consent.
Description: This course examines how legal policy both reflects and shapes norms related to gender and sexuality, and analyzes the public policy implications of court decisions related to gender and sexuality.
Note: Cross-listed with POLS 316.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 320. Women in Music: A History - AH, D1 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Addresses the historical and social contexts and social constructions of gender related to women and music, as well as the portrayal of women in musical works. Includes focus on Western art music as well as various genres of popular music.
Note: Cross-listed with MUH 320.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 323. Queer Politics 3 Units
Term Typically Offered: Spring Only
Description: The course examines the political organization of gays, lesbians, and transgendered persons, forms of oppression they experience, forms of political activism they utilize, and their relationship to mainstream political institutions. (Social Sciences)
Note: Cross-listed with POLS 323.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 324. Communication and Gender 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: The course examines how gender identities, roles and norms have been structured within different modes of communication (e.g., interpersonal, mass media and institutional). (Social Sciences)
Note: Cross-listed with COMM 324.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 325. Women and Global Literature - AH, D2 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGL 102 or ENGL 105 or WGST 199 or equivalents.
Description: This course examines literatures by women writers and about women subjects from non-U.S. societies, exploring a variety of literary forms in relationship to social factors such as class, race, ethnicity, religion, sexuality and/or indigeneity.
Note: Cross-listed with ENGL 373.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 326. Gender and Children's Literature - AH, D1 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGL 102 or ENGL 105 or WGST 199 or equivalents.
Description: Examination of gender in British and North American literature for children/young adults from the late 19th century to the present with attention to the intersection of gender with common themes (e.g., heroic journey). Historical period: Post-1900. (Humanities)
Note: Cross-listed with ENGL 374.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 331. The History of Women, 1700 to the Present 3 Units
Term Typically Offered: Fall Only
Description: A comparative treatment of women’s changing status, including material from European and American history. (Social Sciences)
Note: Junior standing recommended.
Note: Credit may not be received for this course and HIST 324.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 332. History of Childhood in America - D1, SBH, WR 3 Units
Term Typically Offered: Fall, Summer
Description: An analysis of the impact of socioeconomic and ideological change in the experience of children and youth from the colonial period to the present, with attention to the effects of race, class, and gender on childhood experience. (Social Sciences)
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for this course and HIST 326.
Note: Cross-listed with HIST 326.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 333. Women in Latin American History 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HIST 331 or HIST 332 recommended.
Description: Examines the history of women and gender in Latin America, with an emphasis on women's political participation. (Social Sciences)
Note: Credit may not be earned for this course and HIST 333.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 337. Motherhood and the Law 3 Units
Term Typically Offered: Occasionally Offered
Description: Motherhood and the Law will examine the various ways the legal system impacts and regulates mothers. Students will critically analyze the effect court decisions and laws have on mothers using an intersectional approach (as developed by Kimberle Crenshaw).
The course begins with setting a theoretical framework - built on both theories of motherhood and legal analysis - and from there will study the interplay between the law and motherhood, from reproductive rights through raising their children. This course is designed to give students an understanding of how the justice system impacts mothers’ lives, maintains systems of inequality, and regulates their bodies.
Note: Crosslisted with SOC 337.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 339. Black Women and the Criminology system 3 Units
Term Typically Offered: Occasionally Offered
Description: Black Women in the Criminal Justice System will examine the various ways the legal system impacts and regulates Black women.
Students will critically analyze the effect court decisions and laws have on Black women using an intersectional approach of race, gender, economic class, differently abled bodies, sexual orientation, religion, and nationality. Students will first study legal standards and terminology as well as race and gender theory to develop a solid foundation on which to examine case law, constitutional standards and current events. This course is designed to give students an understanding of how the justice system impacts Black women's lives, maintains systems of inequality, and regulates their bodies. We will look at women lead the criminal justice reform movement both within and outside of the legal system.
Note: Cross-listed with SOC 339 and PAS 339.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 340. Women and Religion 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Sophomore standing.
Description: An examination of the significance of religious imagery for the socio-cultural roles of women, both past and present. (Humanities)
Note: Cross-listed with HUM 340.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 342. Black Women Novelists - AH, D2, WR 3 Units
Term Typically Offered: Occasionally Offered
Description: Selected novels by contemporary African, African-American and Caribbean women writers, in-depth and in-comparative study.
Historical period: Post-1900. (Humanities)
Note: Cross-listed with PAS 342 and ENGL 342.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 343. Faces of Global Poverty - WR  
Term Typically Offered: Occasionally Offered  
Description: Persistent poverty in the Third World and specific groups in the United States. Focuses on causes, consequences, solutions and survival strategies. (Social Sciences)  
Note: Cross-listed with PAS 392 and SOC 392.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 344. Black Lesbian Lives  
Term Typically Offered: Occasionally Offered  
Description: Course focuses on black, lesbian-identified people cross-culturally, examining autobiographical accounts and visual culture within the context of LGBTQ politics and discourse. (Social Sciences).  
Note: Cross-listed with PAS 344.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 346. Women in Africa: Historical and Literary Perspectives  
3 Units
Description: Survey of the role of women in historical African societies, women under colonialism, in nationalist movements, and in modern African countries. Literature about and by women will be considered. Emphasis on African/female perspective. (Humanities)  
Note: A prior course in PAS or WGST is recommended.  
Note: Cross-listed with PAS 385.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 347. Racism and Sexism - D1, SB  
3 Units
Term Typically Offered: Summer Only  
Description: The impact of racism and sexism on marginally-oppressed communities as well as their strategies of resistance. (Social Sciences)  
Note: Cross-listed with PAS 364.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 348. African-American Women - WR  
3 Units
Term Typically Offered: Occasionally Offered  
Description: Examination of the status and roles of African-American women from the slave era to contemporary times. Emphasis on migration, urbanization and labor force participation in familial contexts. (Social Sciences)  
Note: Cross-listed with PAS 332.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 349. Color Complex of Black Women  
3 Units
Term Typically Offered: Fall Even Years  
Description: Study of phenotypes, body image, inter/intra-gender relationships, media influences, and social norms, from slavery to present, on the development of black female identities, using theories in psychology, sociology, and deconstruction. (Social Sciences)  
Note: Cross-listed with PAS 331.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 355. Women in American Politics  
3 Units
Term Typically Offered: Spring, Summer  
Description: A study of women's involvement in American politics as active political party members, as candidates for national, state, and local office, as elected officials, and as appointees to government positions at all levels. (Social Sciences)  
Note: Cross-listed with POLS 324.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 360. Philosophy and Feminism - AH, D1  
3 Units
Term Typically Offered: Fall, Spring  
Description: An examination of philosophical issues involved in feminism, including classical, but emphasizing contemporary discussions.  
Note: Cross-listed with PHIL 318.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 364. Women's Health Issues - D1, SB  
3 Units
Term Typically Offered: Fall, Spring  
Description: This course will identify a broad range of health issues that can be unique to women or of special importance to women throughout the world. The course will examine the roles women play as both providers and consumers of health care nationally and internationally. (Social Sciences)  
Note: Cross-listed with HSS 364.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 373. Women Writers and Filmmakers - WR  
3 Units
Description: Explores issues relating to women's lives in their cinematic and fictional texts from 1970's until today; emphasis on foreign language films. Texts are read in English translation; films are either subtitled or dubbed (Humanities).  
Note: Cross-listed with M L 365.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Notes and Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 375.</td>
<td>LGBTQ Literature in the United States - AH, D1</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>Cross-listed with ENGL 102 or ENGL 105 or WGST 199 or equivalent.</td>
</tr>
<tr>
<td>WGST 389.</td>
<td>Topics in Women's and Gender Studies: Humanities - WR</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Cross-listed with ENGL 375.</td>
</tr>
<tr>
<td>WGST 390.</td>
<td>Topics in Women's and Gender Studies: Humanities</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Cross-listed with ENGL 375.</td>
</tr>
<tr>
<td>WGST 391.</td>
<td>Topics in Women's and Gender Studies: Social Sciences</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Cross-listed with ENGL 375.</td>
</tr>
<tr>
<td>WGST 393.</td>
<td>Topics in Women's and Gender Studies: Humanities (WR)</td>
<td>3</td>
<td>Occasionally Offered</td>
<td>Cross-listed with PAS 350 and TA 363.</td>
</tr>
<tr>
<td>WGST 394.</td>
<td>Lectures in Women's and Gender Studies</td>
<td>1-3</td>
<td>Occasionally Offered</td>
<td>Cross-listed with ENGL 375.</td>
</tr>
<tr>
<td>WGST 395.</td>
<td>Women, Media and Culture</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Cross-listed with ENGL 375, CAS 100, and SP 363.</td>
</tr>
<tr>
<td>WGST 400.</td>
<td>Community Internship</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Cross-listed with ENGL 375, CAS 100, and SP 363.</td>
</tr>
<tr>
<td>WGST 410.</td>
<td>Black Feminism in Action</td>
<td>3</td>
<td>Fall Only</td>
<td>Cross-listed with ENGL 375, CAS 100, and SP 363.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Term Typically Offered</td>
<td>Units</td>
<td>Prerequisite(s)</td>
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<tr>
<td>WGST 411</td>
<td>Psychology of Women</td>
<td>Spring Only</td>
<td>3</td>
<td>PSYC 201</td>
</tr>
<tr>
<td>WGST 414</td>
<td>Gender and Work</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>SOC 201 and SOC 320, or 9 hours at 300+ level in one social science; or consent of instructor.</td>
</tr>
<tr>
<td>WGST 415</td>
<td>Sociology of Disabilities</td>
<td></td>
<td>3</td>
<td>9 hours at 300+ level in one social science; or consent of instructor.</td>
</tr>
<tr>
<td>WGST 416</td>
<td>Sexual Assault and the Legal System</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
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<tr>
<td>WGST 417</td>
<td>Reproductive Justice</td>
<td>Occasionally Offered</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WGST 418</td>
<td>Domestic Violence</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>SOC 201 and SOC 327, or 9 hours at 300+ level in one social science; or consent of instructor.</td>
</tr>
<tr>
<td>WGST 458</td>
<td>Women: International Perspective</td>
<td></td>
<td>3</td>
<td>SOC 201 and SOC 327, or 9 hours at 300+ level in one social science; or consent of instructor.</td>
</tr>
<tr>
<td>WGST 460</td>
<td>Gender in the Middle East</td>
<td>Occasionally Offered</td>
<td>3</td>
<td>SOC 201 and SOC 327, or 9 hours at 300+ level in one social science; or consent of instructor.</td>
</tr>
</tbody>
</table>
WGST 490. Topics in Women's and Gender Studies: Humanities  
3 Units  
**Description:** Focuses on a specific topic related to women or gender from an interdisciplinary, humanities perspective. Topics announced in the schedule of courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 491. Topics in Women's and Gender Studies: Social Sciences  
3 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** Focuses on a specific topic related to women or gender from an interdisciplinary, social sciences perspective. Topics are announced in the Schedule of Classes.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 492. Topics in Women's and Gender Studies: Social Sciences (WR)  
3 Units  
**Description:** Focuses on a specific topic related to women or gender from an interdisciplinary, social sciences perspective and also meets the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 493. Topics in Women's and Gender Studies: Humanities (WR) - WR  
3 Units  
**Description:** Focuses on a specific topic related to women or gender from an interdisciplinary, humanities perspective and also meets the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 498. Senior Honors Thesis: Social Sciences - WR  
3 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Restricted to Women's & Gender Studies majors and minors who have been admitted to departmental or college honors; permission of instructor required.  
**Description:** An intensive examination from a social sciences perspective of a topical area in women's and gender studies undertaken with a designated faculty advisor.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 499. Senior Honors Thesis: Humanities (WR) - WR  
3 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Restricted to Women's & Gender Studies majors and minors who have been admitted to departmental or college honors; permission of instructor required.  
**Description:** An intensive examination from a humanities perspective of a topical area in women's and gender studies, undertaken with a designated faculty advisor.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 500. Senior Seminar in Women's and Gender Studies: Social Sciences - CUE  
3 Units  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Senior standing or consent of instructor.  
**Description:** This course investigates a Women's and Gender Studies topic from an interdisciplinary perspective and requires students to practice interdisciplinary methodology.  
**Note:** Approved for the General Education requirement in written communication (WR).  

**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 512. Gender, Race, Work, and Welfare  
3 Units  
**Prerequisite(s):** 9 hours of social sciences course work at the 300-level or above; or consent of instructor.  
**Description:** Introduction to theory and research on labor market and welfare state with focus on gender and race/ethnicity as they influence women's experiences of and ideas about work and welfare. (Social Sciences)  
**Note:** Cross-listed with PAS 512 and SOC 512.  
**Note:** Credit may not be earned for both WGST 512 / PAS 512 / SOC 512 and WGST 612 / PAS 612 / SOC 612.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 513. U. S. Social Justice Movements  
3 Units  
**Prerequisite(s):** Junior-level standing.  
**Description:** Course will begin with abolitionism, then concentrate on social justice upsurges of the 20th century, with emphasis on women in the civil rights and Black liberation movements. (Social Sciences)  
**Note:** Cross-listed with HIST 513, PAS 513, SCHG 513.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 520. Women's Personal Narratives  
3 Units  
**Prerequisite(s):** ENGL 102 or ENGL 105 or WGST 199; Junior standing.  
**Description:** Course examines issues such as race, class, religion, geography, and sexual orientation surrounding the writing/reading of women's personal narratives (e.g., diaries, letters, autobiographies, oral histories, biographies, and films) from the 19th and 20th centuries. (Humanities)  
**Note:** Cross-listed with ENGL 554.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 522. The Body in Popular Media - WR  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): One WGST course or permission of instructor.
Description: Examines the relationship between culture and the body, focusing on how Western philosophy, as well as gender, race and class, have constructed popular images of and attitudes toward the body.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both WGST 522 (does not carry graduate credit) and WGST 622.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 523. Gender and Popular Music - WR  3 Units
Description: Course explores the way gender structures the production, distribution, and consumption of popular music, including variety of genres in the past and present, with attention to the intersectional roles of race, class, and sexuality. (Humanities)
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 525. Art and Trauma  3 Units
Prerequisite(s): ARTH 270 and ARTH 325, or permission of instructor.
Description: Representations of Trauma in the Visual Arts is an advanced exploratory seminar examining the changing relationships between trauma and its representation in the twentieth century. Beginning with the Holocaust, the course charts a trajectory from this most profound of collective traumas, to the refinement of clinical definitions of trauma (e.g., PTSD) in the wake of the Vietnam War, the development of trauma studies in the humanities in the 1990s, to the recent “pictorial turn” within scholarship on trauma. This historical framework will be brought to bear upon the dynamics of how trauma and visuality have been approached by scientists, scholars, and artists. Each week’s reading and viewing materials will offer students an example of historical or clinical account of trauma, a secondary or applied analysis, and its artist’s original work that responds to the particular traumatic event under consideration.
In this regard, students will be encouraged to negotiate the discursive relationships between history, theory, and practice.
Note: Cross-listed with ARTH 525.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 530. Feminism in Western Civilization, 1790-1920 - WR  3 Units
Description: Comparative analysis of feminist movements in the United States, Britain, and Europe, stressing intellectual background, social composition, goals and political strategies. (Social Sciences)
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be received for WGST 530 or HIST 588 and WGST 630.
Note: Junior-standing recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 531. Women in the Twentieth Century in Europe and the U.S. - WR  3 Units
Prerequisite(s): Junior standing.
Description: The history of women in Western society, including Europe and the U.S. in the twentieth century. Includes political, economic, social, and cultural developments. (Social Sciences)
Note: Cross-listed with HIST 583.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for WGST 531/HIST 583 and WGST 631.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 532. History of American Sexualities - WR  3 Units
Prerequisite(s): Junior standing.
Description: The course focuses on sexual behaviors and meanings in America from the colonial period to the late twentieth century and how sexual meanings impact people’s identities, choices, and social positions. The course also concerns the interaction of gender, race, and class. (Social Sciences)
Note: HIST 211 and HIST 212 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for this course and HIST 589.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 533. Women in 19th-Century America - WR  3 Units
Prerequisite(s): ENGL 102 or ENGL 105, or the equivalent.
Description: Course focuses on material conditions, ideologies, and knowledge-systems that shaped American women’s lives in the 19th century, with attention to race, class, and regional differences. (Social Sciences)
Note: Cross-listed with HIST 506.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HIST 506 / WGST 533 and WGST 633.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 534. American Woman in Sports  3 Units
Description: The role of the American woman in sport. Examination of concepts about women, sport, and society in contemporary and historical perspectives. (Social Sciences)
Note: Cross-listed with SPAD 529.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 540. Women's Health in Africa - WR 3 Units
Prerequisite(s): Senior standing.
Description: Examination of population growth, early marriage, family size and cultural and religious beliefs on reproductive health of contemporary African women. (Social Sciences)
Note: Cross-listed with PAS 562.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both WGST 540/PAS 562 and WGST 640/PAS 662.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 543. Black Women's Voices - WR 3 Units
Prerequisite(s): At least 6 credit hours in Social Science or Humanities or consent of faculty.
Description: Global synopsis of black women’s studies and social thoughts. Highlights roadblocks and bridges experienced. Captures race, gender, class and spatial dimensions. (Social Sciences)
Note: Cross-listed with PAS 542.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both WGST 543/PAS 542 and WGST 643/PAS 643.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 545. Southern Women: Black and White 3 Units
Term Typically Offered: Occasionally Offered
Description: Course focuses on questions of identity for southern women, black and white, by contrasting stereotypes and ideals with realities for these women in the slave, Jim Crow, and modern South. (Social Sciences)
Note: Cross-listed with PAS 545.
Note: Credit may not be earned for this course and WGST 645 or PAS 645.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 547. Language, Race, Class, and Gender 3 Units
Prerequisite(s): Junior standing.
Description: Course investigates the intersections of linguistic behavior with questions of race, class and gender. Students will gain an understanding of the multiple characteristics of communication. (Humanities)
Note: Cross-listed with PAS 547.
Note: Credit may not be earned for this course and PAS 547.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 556. Feminist Theory - WR 3 Units
Description: Survey of the history and scope of the feminist tradition with emphasis upon liberal, radical, Marxist, socialist, psychoanalytic, and postmodern approaches to feminist theory. (Social Sciences)
Note: Cross-listed with POLS 568.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both WGST 556/POLS 568 and WGST 656/POLS 668.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 558. Women in Developing Countries - WR 3 Units
Description: Follows the progress of the international women's movement by focusing on the emergence of women leaders and their work in developing countries since the First World Conference on Women, 1975 to the present. (Social Sciences)
Note: Cross-listed with POLS 563.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 560. Feminist Philosophical Literature 3 Units
Prerequisite(s): Junior standing.
Description: Examination of central works by feminist philosophers in such sub-disciplines as ethics, political philosophy, and epistemology. (Humanities)
Note: Cross-listed with PHIL 518.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 571. Francophone Women Writers - WR 3 Units
Prerequisite(s): Faculty consent.
Description: Readings of literary and non-literary texts by women of the French-speaking world. (Humanities)
Note: Cross-listed with M L 506.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 582. Gender, Race and Culture in Health Care 3 Units
Prerequisite(s): A Philosophy course at 300-level or above, or consent of instructor.
Description: Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.
Note: Cross-listed with PHIL 582.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 584. Women in East Asian History  3 Units
Description: The history of women in China from ancient times to the twentieth century, with comparisons to women’s experiences in Japan, Korea, and Vietnam. (Social Sciences)
Note: Cross-listed with HIST 584.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 589. Independent Study: Women’s and Gender Studies: Humanities  1-3 Units
Prerequisite(s): Restricted to students who have a 3.0 cumulative GPA and have completed a minimum of 12 hours in WGST courses; permission of instructor.
Description: Provides opportunity for a student to do advanced interdisciplinary, humanities work on a Women’s and Gender Studies topic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 590. Independent Study: Women’s and Gender Studies: Social Sciences  1-3 Units
Prerequisite(s): Restricted to students who have a 3.0 cumulative GPA and have completed a minimum of 12 hours in WGST courses; permission of instructor.
Description: Provides opportunity for a student to do advanced interdisciplinary, social sciences work on a Women’s and Gender Studies topic. Topics announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 591. Topics in Women’s and Gender Studies: Social Sciences  3 Units
Term Typically Offered: Occasionally Offered
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, social sciences perspective. Topics announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 592. Topics in Women’s and Gender Studies: Social Sciences (WR)  3 Units
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, social sciences perspective. Topics announced in Schedule of Courses.
Note: Approved for the General Education requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 593. Topics in Women’s and Gender Studies: Humanities  3 Units
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, humanities perspective. Topics announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 594. Topics in Women’s and Gender Studies: Humanities (WR)  3 Units
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, humanities perspective. Topics announced in Schedule of Courses.
Note: Approved for the General Education requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
UNDERGRADUATE CATALOG ARCHIVE

- 2016-17 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/16_17_catalog.pdf)
- 2015-16 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/15_16_catalog.pdf)
- 2013-14 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/13-14-catalog.pdf)
- 2012-13 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/12-13-catalog.pdf)
- 2011-12 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/catalog-full11-12.pdf)
- 2010-11 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/2010_2011ugcat.pdf)
- 2009-10 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/09-10-catalog.pdf)
- 2008-09 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/08-09-catalog.pdf)
- 2006-08 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/06-08-catalog.pdf)
- 2004-06 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/0406catalog.pdf)
- 2003-04 Undergraduate Catalog (http://catalog.louisville.edu/undergraduate/archive/0304catalog.pdf)

The archived University of Louisville Undergraduate Catalogs work best with the free Adobe Reader. Get the latest version of Adobe Reader » (http://www.adobe.com).

Printing Tip: Right-click on the section title in the Bookmarks menu (left) of the PDF and click "Print Page(s)" to print only that section. You can also enter the page range in the "Pages to Print" section of the Print dialog.
The Graduate Catalog is applicable to students who enroll at the University beginning Summer 2018 through Spring 2019.

The Graduate Catalog is the official listing of the policies governing graduate education at the University of Louisville. This catalog documents policies and procedures set by the Graduate Council and is updated each academic year to reflect changes and updates to policy. While every effort has been made to make the catalog accurate as of the date of publication, the University of Louisville reserves the right to change programs of study, academic policies, academic requirements, fees, course information, procedures for the confirmation of degrees, or the announced academic calendar and related deadlines without prior notice.

Revised May 2018.

The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, bachelor, master, specialist, doctoral, and first-professional degrees (DMD, JD, MD). Individuals who wish to contact the Commission on Colleges regarding the accreditation status of the university may write the Commission at:

Southern Association of Colleges and Schools
1866 Southern Lane
Decatur, Georgia 30033-4097
(404) 679-4500

The University of Louisville reserves the right to change programs of study, academic policies, academic requirements, fees, course information, procedures for the confirmation of degrees, or the announced academic calendar and related deadlines without prior notice.

The provisions of this publication do not constitute an express or implied contract between the University of Louisville and any member of the student body, faculty, or general public.

The University of Louisville is an equal-opportunity institution and does not discriminate against persons because of race, religion, sex, age, handicap, color, citizenship or national origin. If responses from the unit staff are unsatisfactory, inquiries or complaints about illegal discrimination including sexual harassment or handicap access can be made to the Affirmative Action director by calling (502) 852–6538.

The Redbook is the official statement of the organizational structure, the rules of governance and procedures, and university-wide policies of the University of Louisville. If there is any conflict between the policies, procedures or other statements contained within this catalog, The
LETTER FROM THE DEAN

Experience the excitement of discovery. Create new knowledge in your field of study. Learn the practical applications of theory from world-class faculty.

At the University of Louisville, we believe that a graduate program should change your work...and your life.

UofL is a metropolitan research university with an attractive main campus in Kentucky’s largest city and a Health Sciences Center in the downtown medical complex. Enrollment is more than 20,000, with 6,000 students pursuing graduate degrees.

Louisville is an exciting, vibrant city, centrally located within the United States. With lots of charm and much to see and do, from the cultural arts to sports, it is home to almost one million people from across the U.S. and around the world.

Paul DeMarco, PhD

Acting Vice Provost for Graduate Affairs
Acting Dean of the School of Interdisciplinary and Graduate Studies
MISSION STATEMENT OF THE UNIVERSITY OF LOUISVILLE

The University of Louisville pursues excellence and inclusiveness in its work to educate and serve its community through:

1. teaching diverse undergraduate, graduate, and professional students in order to develop engaged citizens, leaders, and scholars;
2. practicing and applying research, scholarship and creative activity; and
3. providing engaged service and outreach that improve the quality of life for local and global communities.

The University is committed to achieving preeminence as a nationally recognized metropolitan research university.

As adopted by the Board of Trustees of the University of Louisville, January 14, 2016
The University of Louisville can trace its history back to the establishment of the Jefferson Seminary in 1798.

During the early 19th century, the growing importance of water transportation, coupled with a strategic location at the falls of the Ohio River, made Louisville a commercial hub for the South and West. As the city's population and economy advanced, so did its institutions. In 1837 the Louisville Medical Institute opened for its first class, and the next year, the city created the Louisville Collegiate Institute. The two schools had no official connection, but they both manifested the city's dream of intellectual as well as mercantile leadership. In 1844 the Collegiate Institute inherited property from the now-defunct Seminary.

The Louisville Medical Institute attracted large enrollments and prospered financially, but the Collegiate Institute struggled to remain open. Proponents of grassroots democracy wanted to combine the schools and divert a portion of the medical school's resources to the college. They won a partial victory in 1846 when the General Assembly merged the Medical and Collegiate Institutes as the University of Louisville, but the new charter offered complete vindication to neither interest. It created a common board of trustees, but each division retained financial autonomy. The medical school continued to prosper, but as the liberal arts division struggled and failed to remain open, the newly added law school brought in a respectable number of students.

Most of the professors in the medical and law schools were drawn from the ranks of local physicians and attorneys who considered teaching a part-time vocation. By the 1880s and 1890s, however, the University felt some pressure from the educational reformers who not only believed schools should employ full-time instructors, but also advocated for well-enforced, national standards for academic training. In 1907, this trend contributed to the revival of the College of Arts and Sciences, which had been all but forgotten for most of the 19th century. As the university added new programs such as the Graduate School (1915), School of Dentistry (1918), Speed Scientific School (1925), Louisville Municipal College (1931), School of Music (1932), and Kent School of Social Work (1936), conformity to accreditation guidelines became increasingly important. Expanded academic programs and the adherence to higher educational standards led to the appointment of full-time administrators early in the 20th century.

World War II and the postwar era brought major changes to the University of Louisville. Shortly after the war, a movement began to close the all-black Louisville Municipal College and desegregate the University on all levels. This was accomplished in 1950 and 1951. The School of Business was established in 1953. Perhaps the most dramatic development of the postwar period was the movement of taxpaying citizens from the city to the suburbs. Since the University of Louisville was municipally-funded, this caused a damaging drain on the school's revenue. As early as 1965, a governor's task force suggested the possibility of the University of Louisville joining the state system of higher education, which it did in 1970.

Another major development occurred in 1994, when the Kentucky Council on Postsecondary Education designated University of Louisville as a research university, assigning it a statewide mission in medicine, dentistry, law and urban affairs.

In 1997, the state legislature revised the university's mission statement. University of Louisville was charged with becoming a "premier, nationally recognized metropolitan research university." The state also established the Research Challenge Trust Fund, which pumped more than $118 million into research at University of Louisville, helping the university attract and retain a number of nationally recognized researchers and their teams. The fund, also known as "Bucks for Brains," has helped University of Louisville attract almost $400 million in extramural funding, created 1,500 new jobs and had an economic impact of almost $850 million.

One of the oldest metropolitan universities in the United States, University of Louisville has a long history of dedication to the needs of the Louisville urban area. In 2007, the university reaffirmed that mission through implementation of its Signature Partnership initiative, which formalizes its commitment to improving the lives of residents of some of Louisville's most disadvantaged neighborhoods. University of Louisville faculty, staff and students now support the city through hundreds of programs and partnerships in the areas of health, economic development, education and social and human services.
ADMINISTRATION

Dr. Neeli Bendapudi, President, University of Louisville

Board of Trustees
In accordance with the statutory authority of the Commonwealth of Kentucky, the Board of Trustees of the University of Louisville exercises final jurisdiction over the university. It selects the President of the university; upon recommendation of the President, it makes all appointments to the faculty and all appointments of individuals in administrative capacities who serve at the pleasure of the Board.

The Board of Trustees adopts a budget annually for the ensuing year and grants all degrees conferred by the university.

More information on the Board of Trustees, including current membership can be found at the Board of Trustees website (http://louisville.edu/president/board-of-trustees).

University Leadership
updated October 2018

Neeli Bendapudi, PhD
President

Beth Boehm, PhD
Executive Vice President and University Provost

Gregory C. Postel, MD
Executive Vice President of Health Affairs

Robert S. Keynton, PhD
Interim Executive Vice President for Research and Innovation

School and College Deans

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Todd Mooradian, PhD
College of Business

T. Gerard Bradley, DMD
School of Dentistry

Ann Larson, PhD
College of Education and Human Development

Emmanuel Collins, PhD
J.B. Speed School of Engineering

Paul DeMarco, PhD
School of Interdisciplinary and Graduate Studies (Acting)

Colin Crawford, JD
School of Law

Toni M. Ganzel, MD
School of Medicine

Christopher P. Doane, PhD
School of Music

Marcia Hern, EdD, CNS, RN
School of Nursing

Craig H. Blakely, PhD
School of Public Health and Information Sciences

David Jenkins, PhD
Kent School of Social Work

Robert E. Fox Jr., MBA, MLS
University Libraries

Administrative Officers of the School of Interdisciplinary and Graduate Studies
Paul DeMarco, PhD
Acting Vice Provost of Graduate Affairs and Acting Dean of the School of Interdisciplinary and Graduate Studies (Effective July 1, 2018)

Graduate Student Council
Kelsey Kaht
GSC President
ABOUT THE SCHOOL OF INTERDISCIPLINARY AND GRADUATE STUDIES

The legislative functions of the School of Interdisciplinary and Graduate Studies are vested in the Graduate Council, which consists of elected representatives of the Graduate Faculty. The Council establishes minimum guidelines and policies that maintain high standards for administering graduate education at the University of Louisville. The Dean of the School of Interdisciplinary and Graduate Studies serves as chair of this body and of the Graduate Faculty.

The dean and the dean’s staff are responsible for the administration of the rules and regulations of the School of Interdisciplinary and Graduate Studies and are expected to maintain and safeguard the standards and policies of the school as outlined by the Graduate Faculty and the Graduate Council.

Graduate students participate in the operation and decision-making process of the School of Interdisciplinary and Graduate Studies through the Graduate Student Association (louisville.edu/graduate/gsc)—to which all graduate students belong—and its executive committee, the Graduate Student Council, which consists of one elected representative from each graduate program. A representative of the Graduate Student Council serves as a voting member of the Graduate Council. Graduate students are actively sought as members of many of the standing committees of the School of Interdisciplinary and Graduate Studies, and they are urged to participate and become involved in the administration of the School of Interdisciplinary and Graduate Studies through these channels.
MISSION STATEMENT
OF THE SCHOOL OF
INTERDISCIPLINARY AND
GRADUATE STUDIES

The mission of The School of Interdisciplinary and Graduate Studies is to advocate and provide support for graduate education, graduate students, and interdisciplinary programs, and to promote the advancement of knowledge through the teaching and training of post-baccalaureate students. By fostering the spirit of inquiry and research in the members of its faculties, it not only strengthens undergraduate instruction but also advances knowledge. Through its graduate courses, it furnishes advanced preparation for those who are planning to become investigators or teachers in the social sciences, humanities, and natural sciences. It also partners with the academic units to support graduate students, financially and professionally, and help those units recruit, retain, and prepare students for successful careers.
APPLICATION AND ADMISSION

It is the applicant’s responsibility to consult the appropriate department, school or program for application deadlines and specific program requirements. The university reserves the right to change programs of study, academic requirements, tuition and fees, schedule of courses, the announced academic calendar and deadlines without prior notice.

Minimum Application Requirements for All Graduate Programs

- Application for graduate admission
- Application fee
- Official transcript(s) from all previous colleges and universities attended
- Letters of recommendation (at least 2) (check program requirements)
- Standardized Test Scores (check program requirements)

Some programs require additional materials, such as a personal statement, writing sample, etc. (consult specific program requirements in the graduate catalog).

Application for Admission

Apply online at louisville.edu/graduate/apply

Credentials should be sent to the address below:

University of Louisville
School of Interdisciplinary and Graduate Studies
Graduate Admissions
2211 South Brook Street, Houchens Building, Suite 105
Louisville, KY 40292

Programs have different deadlines and may require additional credentials or materials. Applicants should consult the pertinent program section of this catalog and check directly with the department.

The application and supporting documents become the property of the University of Louisville and will not be returned to the applicant or forwarded to another university.

If you do not enroll, your academic credentials will be retained in the School of Interdisciplinary and Graduate Studies for two years.

Application Fee

A non-refundable application processing fee is required. When applying online, the fee may be paid with a credit card or electronic check to CollegeNET (details are provided online at the time of application).

Students receiving public assistance may be exempt from the application fee and may request an application fee waiver with appropriate documentation.

Applications will not be processed until the application fee is received.

Transcripts

Official transcripts showing all degrees awarded and all undergraduate and graduate work completed at every regionally accredited college/university previously attended must be submitted. Transcripts must be sent directly from the college/university. Transcripts sent by applicants will be considered unofficial. The minimum requirement for admission is the baccalaureate degree or its equivalent from a regionally accredited institution. Students applying with a baccalaureate or an advanced degree from a nationally accredited institution will be considered at the discretion of the admitting unit with approval via a variance request to the Vice Provost for Graduate Affairs.

All transcripts that are not in English must be translated verbatim into English and must be notarized. Some programs may require international applicants to have transcripts evaluated by a credential evaluation service such as World Education Services (www.wes.org) or Educational Credential Evaluators (www.ece.org), prior to consideration. Please check directly with the admitting department.

1 Regional accrediting agencies include: Middle States Association of Colleges and Schools (MSA), North Central Association of Colleges and Schools (NCA-HLC), Northwest Commission on Colleges and Universities (NWCCU), New England Association of Schools and Colleges (NEASC-CIHE), Southern Association of Colleges and Schools (SACS), The Western Association of Schools and Colleges (WASC-ACSCU, WASC-ACCJC)

Test Scores

The Graduate Record Exam (GRE) is required for admission to most programs and for consideration for most fellowship and scholarship awards. Please check directly with the department regarding test requirements. The University of Louisville institution code for score reporting is 1838.

Letters of Recommendation

A minimum of two letters of recommendation are required; however, some graduate programs require more. Letters should be written by someone who can speak to the applicant’s academic and/or professional capabilities. Letters of recommendation may be sent via College Net (online application service), to gradadm@louisville.edu or by regular mail to the address listed above.

International Students

All international students shall comply with regulations of the U.S. Department of Immigration and Customs, its Student and Exchange Visitor Program and all related policies of the University of Louisville International Center.

All international students must be registered with the University of Louisville International Center and must present evidence of financial resources that are adequate to support their educational and living
expenses in the United States for the duration of their studies. Documentation showing that a University Fellowship or Graduate Assistantship has been awarded is normally considered evidence of adequate financial resources.

International students for whom English is not their primary language must show English language proficiency by demonstration of level of proficiency, specified by the program, on the TOEFL examination (www.toefl.org) or IELTS examination (www.ielts.org), or demonstration of an accredited degree awarded by an acceptable institution which uses English as the primary language of instruction. Scores must be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions directly from the testing agencies. The school code is 1838.

International student services and programs are organized and administered by the International Student and Scholar Services (ISSS) staff, located in the International Center. The Office serves as an administrative, advising, and programming unit for all international students at the University of Louisville. The staff is trained to assist international students in solving problems, handle matters with immigration, and answer general questions about life in Louisville or in the United States.

Please refer to the International Center web page at: louisville.edu/internationalcenter/

Admissions

Upon receipt of the application for graduate studies, application fee and credentials, the graduate program will evaluate the application package and specify the admission status and any conditions of admission. The official admission letter will come from the graduate program or the enrollment unit Dean or designee.

Degree status – good standing: In order for a student to be recommended for admission without conditions to degree status in good standing, all admission credentials must have been received and evaluated. The applicant must have earned a minimum grade-point average as specified by the enrollment unit. Each applicant should consult the specific graduate program descriptions in this catalog to determine any additional admissions criteria or any more restrictive requirements for admission to this status.

Degree status - provisional: This status is intended for students whose application materials are incomplete (usually missing required credentials or letters), but who have submitted the application form and application fee. Students in provisional status must also meet the general academic requirements of their program. Students may not enroll for a second consecutive term in provisional status. Not all graduate programs allow admission on a provisional basis. A student admitted on a provisional basis has one semester to furnish any credentials missing at the time of admission.

Degree status - special conditions: This status is intended for students whose applications are complete, but whose academic background is below the minimum for their program. Students admitted in this status will be expected to meet certain criteria within a specific time-frame outlined by the admitting graduate program. A student admitted with an undergraduate grade point standing of less than the minimum of the enrollment unit may be subject to program limitations on the number of hours in which he/she may enroll for each semester. Students who do not meet any other departmental requirements outlined in the admission letter may be subject to academic dismissal from their program.

No applicant with a grade-point average of less than 2.50 will be admitted to a program of graduate study. Under unusual circumstances, programs that wish to admit students who do not meet this standard must submit a variance request to the Vice Provost for Graduate Affairs.

Non-degree status

Applicants who do not desire to seek an advanced degree but wish to take graduate course work may be permitted to enroll in non-degree status. Please note that not all programs will admit students to non-degree status. Application credentials must include a completed application for admission, application fee and an official transcript showing the award of a baccalaureate degree. No more than nine (9) credit hours of course work taken in a non-degree status may be applied to a graduate degree program with departmental approval, and no more than fifteen (15) credit hours may be accumulated while in non-degree status.

Visiting Students

A graduate student from another university or college may enroll for graduate course work as a visiting student at the University of Louisville with the approval of the graduate program director or department chair. The visiting student is responsible for having the home institution provide a letter certifying that the student is in good standing. A graduate application and fee are required and transcripts may also be required by some departments.

University of Louisville graduate students who attend another college or university as visiting students must have the permission of their department chair, program director or major advisor. The guidelines for the ‘Transfer of Credit’ stated in the graduate catalog apply to all credits earned as a visiting student. Visiting student status may be granted only to a student who is in good standing.

Graduate Admissions Hold

Graduate students admitted Provisional/Special Condition status will have a “Graduate Admissions Hold” placed on their academic record. This hold will be placed approximately one week prior to the beginning of registration on all current students whose status has not been changed to good standing. The hold will be placed by the School of Interdisciplinary and Graduate Studies.

Returning students who were admitted Provisionally, and/or with Special Conditions who wish to re-enroll will be evaluated to determine if their conditions were met. Upon submitting a request to re-enroll form to the Registrar’s office, the Registrar’s office will forward for review by the School of Interdisciplinary and Graduate Studies. If the student is not eligible to be changed to good standing, a “Graduate Admissions Hold” will be placed on the student’s academic record prior to the processing of the re-enrollment form.

Additional Considerations for Admission to Degree Status

A student admitted with an undergraduate grade point standing of less than the minimum of the enrollment unit may be subject to program limitations on the number of hours in which he/she may enroll for each semester. Students who do not meet any other departmental requirements outlined in the admission letter may be subject to academic dismissal from their program.

No applicant with a grade-point average of less than 2.50 will be admitted to a program of graduate study. Under unusual circumstances, programs that wish to admit students who do not meet this standard must submit a variance request to the Vice Provost for Graduate Affairs.
NEW GRADUATE STUDENT INFORMATION

Overview
The University of Louisville operates on a semester system that includes a Fall semester, Spring semester, and Summer semester with multiple terms. The university has a computerized admissions and registration system. Students are advised to include their full name and date of birth on all correspondence with the university to facilitate the identification of admission credentials and requests for information. Students who do not enroll for the semester for which they apply may call and ask that their enrollment date be changed to a future term. In some cases, applicants may be asked to reapply and resubmit credentials. The university holds credentials on applicants for a limited time.

Student Responsibility
It is the responsibility of the graduate student to become familiar with and observe all policies and requirements of the School of Interdisciplinary and Graduate Studies and of his or her particular degree program and department. Policies, procedures, and requirements are subject to change, and it is the responsibility of the graduate student to keep her/himself apprised of current regulations. All students must respond to official notices issued by administrative offices and instructors, whether these notices be posted on official bulletin boards, are sent through postal, or email. A student's status is not dependent upon a written notification but is a consequence of circumstances in the admission process and the student's academic performance. Written notification is simply a verification of status.

Graduate Credit
Courses listed in this catalog are offered for graduate credit. To receive graduate credit, a student must register for the course through the School of Interdisciplinary and Graduate Studies or through another graduate-level program, such as a masters or doctoral program. Students who take courses as post-baccalaureate non-degree students, may not receive graduate credit for them.

Prerequisites
Prerequisites for all courses include graduate status and the consent of the graduate advisor (for registration). Specific course prerequisites are indicated in the course listing (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).
The policies and regulations described in this catalog cannot be superseded or invalidated by either oral or written agreement with faculty, staff, or administrators unless a variance is confirmed in writing by the Vice Provost for Graduate Affairs, in consultation with the Graduate Council.

Registration
Students may register for courses during the priority early registration period before the beginning of the semester. A student’s first opportunity is based on classification and alphabetic rotation. The early registration period is then followed by regular and late registration. The registration calendar for any term is published online by the office of the registrar. Initial registration and any later registration changes are usually completed by students through the registration link of the ULink online portal (https://ulink.louisville.edu).

Initial registration must be completed by the date announced by the registrar, typically the Friday of the first week of classes. Students may make adjustments to their course schedule until the end of the first week for regularly scheduled fall and spring courses. For summer courses and courses with atypical duration, the last date to adjust schedules is specified by the registrar in the official registration calendar. This last day to adjust schedules is referred to as the last day to drop/add.

Students may add courses to their schedules until the last day to drop/add. No signature or other authorization is required if the added course is open for enrollment, if students meet all course prerequisites, and if such additional courses do not raise the students’ credit hours for the term above the maximum allowed by the students’ enrollment unit or academic standing. If the addition increases the tuition cost for the semester, the additional payment must be settled with the university bursar by the last day to drop/add.

Students can place their names on the waitlist for a course that is closed. Students are automatically moved from the waitlist to registration in the course as spaces open until the end of the first week of classes. Students may add their names to the waitlist until the third day of classes for regularly scheduled fall and spring courses, and the first day of classes for summer courses.

Students may drop a course from their schedule until the last day of drop/add. Courses that are dropped during the regular registration period are not listed on the transcript. Students should consider how dropping a course will affect their progress toward their degree and their financial aid eligibility. Students who stop attending a class but fail to complete the drop process, regardless of the date when they stopped attending the course, will be given the grade of F for the course.

Students who wish to enroll in concurrent courses at another institution should consult their academic advisor before registering to secure a visiting student letter, and to ensure proper enrollment and recording of courses. Students in good standing who have earned a minimum of twelve hours may be able to cross-register at other universities in the Kentuckiana Metroversional consortium. Cross registration is permitted on a space-available basis at the discretion of the member institutions. The combined program of work in all institutions may not exceed the maximum course load permitted for students at the University of Louisville. Failure to follow these guidelines may result in loss of credit or in ineligibility to transfer the credits from the other schools toward the requirements for graduation.

The University of Louisville uses an online web registration system. The schedule of courses for each term may be reviewed at htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm.

Students must first contact their graduate advisor or graduate program director to discuss course selections. Students in good standing and admitted without conditions may proceed with the registration process. If, however, a student has been admitted with conditions, or is in probationary status, the student must contact the graduate program director regarding the implications of the admission status.

Full-Time Study
Full-time study for graduate students is defined as enrollment in:

1. Nine (9) credit hours during the Fall semester, OR
2. Nine (9) credit hours during the Spring semester, OR
3. Six (6) credit hours during the Summer semester, OR
4. In degree candidacy status.

Full-Time Study for University Fellows and Graduate Assistants
All University Fellows and Graduate Assistants receiving financial support must be enrolled as full-time students during the period for which they are receiving support.

Duration of Support
Graduate assistantships are awarded on an individual basis according to the needs of the department, professor or project. The number of years or semesters for which these appointments are renewable depends on the department. The university wide official maximums for this type of university sponsored financial support are typically six years for doctoral students, three for master’s students and four for master of fine arts students.
Workload Limitations for Graduate Assistants

Graduate assistants who are receiving a stipend, whether in the form of a University Fellowship, Externally Funded Fellowship, Graduate Research, Teaching or other Assistantship are limited to working 20 hours per week work on the projects designated by the stipend award. However, students may be eligible to work an additional 9 hours per week, with the possibility to earn income for the work, if certain conditions apply. The maximum additional time commitment is 9 hours per week, in addition to the work performed for the GA stipend. However, international students who have a F1 VISA are not eligible for this waiver, and are limited to working no more than 20 hours per week.

The Dean of the School of Interdisciplinary and Graduate Studies must approve requests for students to perform additional work. The Chair of the student’s department or the Graduate Program director must complete the 20 hour waiver form, which can be found at louisville.edu/graduate/forms/ga-waiver-request/. This form will be forwarded automatically to the School of Interdisciplinary and Graduate Studies. If the request is approved, the Office of Payroll and the person who initiated the request will be notified.

Continuous Enrollment

Continuous enrollment is defined as being registered in both Fall and Spring if registering for course work. If a student has been admitted to either masters or doctoral degree candidacy, continuous enrollment in candidacy status is required for the Fall, Spring and Summer terms (only one term of registration is required in summer terms). Students must be enrolled during the semester in which they wish to graduate.

Course Loads

Normally, the maximum number of credit hours that may be taken in a regular semester is 12. The maximum number of credit hours that may be taken in the Summer session (both terms) is 12, including research hours.

Overloads

A student who wishes to enroll in more than the maximum number of credit hours must petition the unit dean to obtain permission.

Auditing Courses

Auditing at the graduate-level is available only to students who are enrolled in a graduate program. A student who wishes to audit a course must obtain permission from the course instructor and the director of the program in which the student is enrolled using the proper form provided by the Office of the Registrar. Auditing a course will not satisfy a prerequisite for a graduate course or a degree requirement.

Transfer of Credit

Earned graduate credit may be transferred from regionally accredited institutions that offer advanced degrees. The number of semester hours transferable, upon request, is six (6). Up to six (6) additional transfer hours may be petitioned, provided that these additional hours are not credits earned by extension, thesis or practicum and provided also that the residency requirement of 24 semester hours is maintained by the addition of University of Louisville credits to the total program.

Course work taken more than three years prior to the student’s application to a graduate program will not normally be considered for transfer, however, such requests will be reviewed by the Vice Provost for Academic Affairs upon recommendation by the department chair and the unit dean.

The course work being considered for transfer must have been taken while the student was enrolled in an accredited graduate or professional school and must be evaluated for transfer by the director of the graduate program in which the student is seeking additional graduate work. Six (6) credit hours may be transferred from a previously earned master’s degree toward a doctoral degree or a second master’s degree, subject to the approval of the degree program and the unit dean. Hours earned toward a culminating experience such as a thesis, practicum, or internship shall not be transferable to the second master’s degree. Only courses in which the student earned grades of B or better will be considered for transfer. Hours and quality points earned at other institutions are not included in the calculation of a student’s grade point average.

Courses in which grades of P were earned must have the approval of the unit dean in order to be transferred.

Transfers of credit from constituent schools and colleges of the University of Louisville are not subject to the above limitations on transfers but require the recommendation of the department chair and the approval of the unit dean. Upon approval of the graduate program, students may apply the coursework from no more than one certificate program to a graduate degree program.

Satisfactory Progress

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director. Based on the request of the graduate program, the unit dean will consider the student for readmission.

Satisfactory progress also requires maintaining the standards of academic and professional integrity expected in a particular discipline or program and, in some disciplines, may include demonstration of the ability to function as a professional practitioner. Failure to maintain these standards or demonstrate such abilities may result in the student’s termination from the program.

Degree Candidacy

Students enter Degree Candidacy upon completion of all course work, qualifying exams, required research credit hours and other co-curricular requirements. Students who are enrolled in degree candidacy are considered full-time students. While in Degree Candidacy, it is the responsibility of both student and mentor to maintain contact to ensure continuous progress towards the completion of the degree. In some cases, a master’s student may complete the requirements of a degree program without the need to enter Degree Candidacy.

Although students must complete all required courses before entering Degree Candidacy, they have the option of taking additional specialized courses, e.g., courses offered by visiting or new faculty, while in Degree Candidacy (in those cases payment of both the candidacy fee and the course tuition will be required).

When all other degree requirements are met, students may enroll in Degree Candidacy in order to meet the requirement that all students must be enrolled during the semester in which they wish to graduate.
Degree Programs must inform the Vice Provost of Academic Affairs when students have met all requirements and are ready to enter Degree Candidacy. Once a student is admitted to candidacy, enrollment in Degree Candidacy status must be continuously maintained year round (i.e. Fall, Spring, and Summer) until the degree is awarded. The only exception to this policy of continuous enrollment is if the unit dean and the Vice Provost of Academic Affairs have granted the student a formal leave of absence.

Once a student initially enrolls in Degree Candidacy, the Registrar will automatically enroll the student in Degree Candidacy until the student applies to graduate.

1. Failure to pay the candidacy fee will cancel a student's enrollment.
2. If a student has any type of hold on the account, the student will no longer be enrolled automatically in Degree Candidacy. To reestablish enrollment in Degree Candidacy, students will be required to pay the candidacy fee for each semester during which candidacy was voided and/or not maintained. To restore Degree Candidacy, the student must contact the Director of Graduate Studies in their degree program.

Time Limitations for Degree-Seekers
Master's students must complete the degree requirements within six (6) years of beginning the program of study. Doctoral students have four (4) years after passing the qualifying exams to finish all other degree requirements. While granting an extension of time is rare, requests for extension of time must be submitted in writing to the graduate program director of the student's department. Once reviewed by the department, the request is forwarded to the unit dean, and then to the Vice Provost for Academic Affairs with supporting documentation for review. Students must be considered in good standing for the request to be considered.

Academic Standing
Good Standing
A graduate student is in good standing as long as the graduate grade point average is 3.0 or higher on a 4-point scale. A student must be in good standing in order to receive a degree.

Academic Probation
Any student with a semester GPA below 3.0 will receive an academic warning from the School of Interdisciplinary and Graduate Studies. A notification will be sent to the student as well the student's graduate program. Should a student's cumulative GPA fall below 3.0, the student will be placed on probation until the student regains a 3.0 average (which is required to graduate). Ordinarily students are not permitted to continue on academic probation for more than one semester, but upon request of the student's graduate program, the unit dean may submit a variance request to the Vice Provost for Graduate Affairs to approve continuation of academic probation beyond a single semester. Students on academic probation for more than one semester risk dismissal from the graduate program.

Graduate programs have the prerogative to establish more stringent criteria for which students may be placed on academic probation.

Academic Dishonesty
Plagiarism, cheating and other forms of academic dishonesty are serious violations of academic conduct and may result in permanent dismissal. Students are expected to be familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. A plea of ignorance is not a defense against the charge of academic dishonesty.

Degree Requirements
Requirements for the Doctoral Degree

Special Considerations for Doctoral Studies
In addition to the particular rules of the various graduate programs as stated in their sections of this catalog, the following general rules apply to all doctoral degree programs.

The award of a doctoral degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. Accordingly, no specific minimum number of credit hours has been established for doctoral degree programs. However, ordinarily the equivalent of three years of full-time graduate study is a minimum.

The doctoral degree is not awarded solely upon completion of a curriculum of courses, even though the student has done superior work in them; rather, it is awarded in recognition of creative scholarship as demonstrated by a substantial contribution in the candidate's chosen field. Only students who offer promise of meeting this high standard will be accepted by a graduate program to begin work toward this degree. Doctoral degree programs typically have more restrictive criteria for admission than those for admission to a master's degree program. The prospective student should consult in person with the graduate program in which he/she wishes to major.

Program of Study
Each applicant for the doctorate is expected to take such courses as may be required for both a strong foundation in the field and the development of a specialization. The student's program will consist of a major field and such minor fields as the major professor, the student, the program faculty, and department chair may agree upon. This program may be modified at any time upon the recommendation of the major professor and approval of the department chair and the dean of the unit.

All courses offered by the University, at any level and in any school, shall be accessible to the doctoral student, subject to approval by the instructors.

Residency for Doctoral Students
To ensure that doctoral students have the opportunity to participate fully in the intellectual life and research atmosphere of the University, at least two years of study must be spent at the University of Louisville and at least one must be spent in full-time residency (except as indicated below). The two-year requirement allows students to build mentoring relationships with faculty members and accrue classroom and research experience over time, while the full-time residency requirement is designed to provide students with at least one year of immersive, intensive study.

According to the Council of Graduate Schools, residency advantages students in the following ways: “... fluency in the language and vocabulary of the [field of] specialization is enhanced by frequent and close association with other students in the same field; competence in the field is enhanced by close familiarity with the university's libraries; valuable experience is gained by attending and participating in both formal and informal seminars, colloquia, discussions led by specialists visiting from other campuses, laboratories, or governmental research centers.”
groups; and thesis or dissertation research is facilitated by frequent consultation with the advisor.

Full-time residency requires that a student be registered for a minimum of 18 credit hours within a twelve-month period. Registration for candidacy cannot be used to meet this requirement.

Alternative Residency Track
All doctoral students must meet the two-year enrollment requirement. Students enrolled in part-time doctoral work may substitute four terms of continuous enrollment (summer terms can be used to meet this requirement) for the full-time residency requirement.

Programs that allow part-time and/or off-site participation must provide a rationale to the Vice Provost for Graduate Affairs, indicating how they ensure that such students have access to an intensive and immersive educational experience. The rationale must be approved by the Vice Provost for Graduate Affairs and be on file in the School of Interdisciplinary and Graduate Studies.

Foreign Language Requirement
Foreign language proficiency is no longer a general requirement for graduate degrees. However, certain graduate programs may have established such requirements, which will be specified in their sections of this catalog.

Qualifying Examination and Candidacy
The applicant for a Doctor of Philosophy or Doctor of Education degree must pass a qualifying examination, oral or written, or both. Its purpose is to verify that the student has sufficient understanding of and competence in his/her field to become a candidate for the degree. This examination may be referred to by some programs as the preliminary, comprehensive, or candidacy examination. To be eligible for this examination, the student must have satisfactorily completed the major portion of the prescribed course work and must have met the foreign language requirement of the program. It is the student's responsibility to be aware of the program's policy on the consequences in the case of failure of all or part of the examination. A student who fails the examination may not be allowed to retake it more than once.

A doctoral degree student must have been admitted to candidacy not later than the end of the ninth month prior to the awarding of the degree, that is:

- August graduation - November 30 of preceding year
- December graduation - March 31 of same year
- May graduation - August 31 of preceding year

Although the prescribed course work may have been completed, the candidate must maintain an active registration status until the degree is awarded (see the catalog section on General Academics Policies and Requirements (p. 802)).

Time Limitation
The candidate must complete all other requirements for the doctoral degree within four calendar years after passing the qualifying examination. In exceptional cases, the Vice Provost for Graduate Affairs is empowered to grant limited extensions of this four-year period.

Dissertation
A dissertation is required of all candidates for the degree of Doctor of Philosophy or Doctor of Education. It is to be a scholarly achievement in research, and should demonstrate a thorough understanding of research techniques in the field of inquiry and the ability to conduct independent research.

The dissertation shall be read by a reading committee, chaired by the major professor, and appointed by the unit dean upon the recommendation of the chair of the major department. This committee shall consist of not fewer than four members, and must include one representative from outside the program. All members must be qualified to serve on the committee as specified by their Unit's Guidelines for Graduate Faculty. The dissertation must be approved by the committee and the chair of the major professor's department.

The final manuscript is submitted electronically to the School of Interdisciplinary and Graduate Studies through the Electronic Thesis or Dissertation Submission form. The final copy is submitted as a PDF. Along with the PDF the student is required to submit a hard copy of the signature page, which should be on white paper with original signatures and the student is required to complete and submit the Non-Exclusive License form.

Some programs may require students to submit a copy of the dissertation or signature page to the department; please check with your program director.

Standards for the Preparation of Thesis and Dissertations are available on the website of the School of Interdisciplinary and Graduate Studies. Alternate standards must be approved by the Vice Provost for Graduate Affairs if in conflict with this standard.

Final Oral Examination
The final oral examination is to be a defense of the dissertation and a demonstration of the candidate's mastery of his/her field. The examination will be given by a committee of Graduate Faculty members appointed by the unit dean upon recommendation of the chair of the major department. The committee will be composed of a minimum of four qualified graduate faculty members, one of whom must come from outside the student's program. The major professor and the remaining Committee members must be qualified to serve as specified by the unit's guidelines for graduate faculty. The examination committee for doctoral students in Interdisciplinary Studies will be approved by the Dean of the School of Interdisciplinary and Graduate Studies upon recommendation of the major professor.

The Dean of the School of Interdisciplinary and Graduate Studies shall notify all members of the Graduate Faculty at least one week in advance that they are invited to participate in the examination, but only members of the committee may vote. At the discretion of the major department, a portion of the examination may be written.

The examination must be taken at least fourteen days before the end of the semester in which the degree is to be granted. To be passed in this examination, the student may not receive more than one abstention or dissenting vote.
Requirements for the Master's Degree

The departmental announcements in this catalog should be consulted in all instances; however, the following rules apply to all master's degree programs.

Course Credit

A minimum total of 30 credit hours of graduate credit is required for the master's degree. At least 15 credit hours must be in courses of the major subject area, and the remaining hours in the program distributed as recommended and approved by the major department. At least one-half of the credits counted toward the degree (exclusive of thesis, practicum and internships) must be in courses open to graduate students only (600 level or above). A grade average of 3.0 or better must be maintained.

Residency for Master's Students

Masters students must take at least 24 credit hours of course work at the University of Louisville to satisfy the residency requirement for the master's degree.

Time Limitation

There is a time limit imposed, stipulating that credit earned more than six years prior to the completion of the degree may not be counted toward meeting its requirements. This time period may be extended upon recommendation of the student's department chair, unit dean and the approval of the Vice Provost for Academic Affairs.

Maintaining Candidacy

Refer to previous section entitled, General Academic Policies and Requirements, see subsection entitled Maintaining Candidacy.

Thesis

Students completing degree programs that include a thesis must submit the thesis to their major professor at least thirty days in advance of graduation (guidelines may be found on the web site of the School of Interdisciplinary and Graduate Studies).

Acceptance of the thesis shall be at the discretion of a special reading committee composed of the major professor and two other committee members. One member shall be from outside the program, and all three members must be qualified to serve on those capacities as specified by their Unit’s Guidelines for Graduate Faculty. The committee shall be approved by the unit dean upon recommendation of the chair of the major department. The committee shall complete its review of the thesis at least one week prior to the final oral examination.

The final manuscript is submitted electronically to the School of Interdisciplinary and Graduate Studies through the Electronic Thesis or Dissertation Submission form. The final copy is submitted as a PDF. Along with the PDF the student is required to submit a hard copy of the signature page, which should be on white paper with original signatures and the student is required to complete and submit the Non-Exclusive License form.

The thesis normally carries 3-6 credit hours of graduate credit, which is in addition to the 15 credit hour minimum taken within the major department. In certain departments, a professional paper or portfolio may be required in lieu of a thesis. For procedures in these instances, consult the Director of Graduate Studies or the chair of the department.

Final Oral Examination

The final oral examination shall be conducted by a committee of Graduate Faculty members recommended by the chair of the major department and appointed by the unit dean.

The examination must cover the materials presented in the thesis and may include the content of courses taken or other matters pertinent to the candidate’s admissibility to the master's degree. At the discretion of the graduate program, a portion of this examination may be written. The recommendation for the degree shall be determined by a simple majority of the committee members. The examination must be taken at least fourteen days before the end of the semester in which the degree is to be granted.

In the event of an unfavorable vote, the committee may refuse the candidate's admissibility to the master's degree, or it may recommend another examination with or without additional work.

Application for Degree

Degrees are awarded in August, December, and May. Candidates who expect to receive degrees on a particular award date must complete the application for degree on ULink (http://ulink.louisville.edu) before the deadline specified in the University calendar (see Schedule of Courses).

The University holds two commencement ceremonies each year. For specific information regarding the ceremonies, apparel, dates, etc. please visit the Commencement web-site: louisville.edu/commencement/

Each student who is required to submit a dissertation or thesis to fulfill degree requirements must follow the guidelines for the Preparation of Thesis and Dissertations, which is located on the website of the School of Interdisciplinary and Graduate Studies (louisville.edu/graduate/current-students/thesis-dissertation-information). Prior to submission of the final copy of a dissertation/thesis, students must contact the School of Interdisciplinary and Graduate Studies to schedule a review of the document.

Grades and Grading Policies

University Grade Point Average (GPA)

The GPA appearing on the University transcript at the end of each semester of enrollment will be the official GPA for determining academic standing. The GPA will be based upon all courses taken while the student is enrolled as a graduate student, including undergraduate courses. Courses taken at the 500-level and above will be counted as graduate courses. While possibly including undergraduate coursework, this transcript will determine the overall Graduate GPA. The program faculty and unit dean will monitor this Graduate GPA to ensure students maintain at least a 3.0 to remain in good standing.

Grading System

Graduate programs at University of Louisville utilize a plus/minus grading system.

The following is the grading scale:

<table>
<thead>
<tr>
<th>Grades</th>
<th>Quality Points</th>
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<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
</tbody>
</table>
Changes of Grades
No changes of grades can be made without a request and explanation on the part of the faculty member giving the grade and the approval of the unit dean.

Missing Grades
All missing grades will be changed to failing grades one year after the completion of the semester in which the course was taken.

Repetition of Courses
A student who has received the grade of C (in a course that is a degree requirement), D or F may repeat that course upon the approval of the graduate program advisor and the unit dean. When a student repeats a course, the grade point average will be calculated on the basis of the last grade earned, although all previous grades will remain on the transcript.

Graduate Student Academic Grievance Procedure

Introduction
This procedure is designed to provide fair means of dealing with student complaints regarding a specific action or decision made by the faculty or a faculty member.

_Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance._

(The Redbook [http://louisville.edu/provost/redbook](http://louisville.edu/provost/redbook), Section 6.8.1)

Preliminary Steps
To pursue a grievance concerning academic matters within the academic unit, the following steps of the grievance procedure should be observed:

1. The student should first discuss the matter with the person involved and attempt to resolve the grievance through informal discussion.
2. If there is no resolution, the student should discuss the matter with that person's supervisor or the person to whom such person reports, who should attempt to mediate a resolution.
3. If the student has not been able to obtain a resolution, he or she may request the Student Grievance Officer (S.G.O.) to attempt informal mediation of the problem.
4. If the matter has not been satisfactorily resolved through the informal process, the student shall submit a written statement of the grievance to the Unit Academic Grievance Committee through the Office of the Dean. The statement shall contain:
   a. A brief narrative of the condition giving rise to the grievance;
   b. Designation of the parties involved; and
   c. Statement of the remedy requested.

Committee Action
Upon receipt of the written statement, the Unit Academic Grievance Committee, or its representatives, shall:

1. Contact the student and the Student Grievance Officer to obtain assurance that all steps of the above informal process were completed and that those issues in the statement were discussed at all levels.
2. Notify the parties named in the statement of the grievance naming them; and send a copy of the statement to the named parties and to all committee members.
3. Notify the grievant and the respondent of the right to challenge committee members for cause, and request early notification of challenge(s) to expedite the grievance procedure. Included in this notification will be a list of the names of all current, regular committee members.

4. Meet within twenty working days after receiving the written statement of any grievance and recommend to the dean of the unit whether sufficient grounds exist to accept a case for hearing. The committee shall hear the case when the dean concurs. The committee shall notify, in writing, all persons directly involved as to the reasons for its recommendation.

5. The action of the grievance committee as to whether to grant a hearing when accepted by the dean of the unit shall be final and binding on all parties except when subject to the condition of appeal.

6. If a hearing will be held, notify in writing all the parties involved, including any witnesses, of the date, time and place of the hearing at least ten days prior to the hearing date (which shall be within 30 working days of receipt of the written grievance).

7. Request in writing from all parties involved any pertinent material deemed necessary for review by the committee prior to the hearing. These materials, and any additional materials either party chooses to submit, must be submitted to the committee not later than four days prior to the hearing. Any person named in a grievance may submit a written statement to the committee outlining issues from that person’s perspective.

8. Maintain confidentiality throughout the entire grievance process. All communications among the committee, the grievant(s), and the person(s) named in the statement of grievance will be confidential.

Hearing Process

All hearings conducted by the Unit Academic Grievance Committee shall be conducted confidentially in the following manner:

1. The grievant(s) and the respondent(s) must be present during the information-gathering portion of the hearing. Witnesses will be available and will be called when needed. The committee reserves the right to allow the presence of a secretary or a technical assistant.

2. All statements during the information-exchange phase of the hearing will be tape-recorded. This record will be preserved in the University Archives for a minimum of five years and shall be confidential.

3. Any committee member may question any of the participants at the hearing.

4. The grievant will present his or her statements and/or witnesses to the committee.

5. The respondent will have the opportunity to question the grievant(s) and the witnesses about their statements.

6. The respondent will present his or her statements and/or witnesses to the committee.

7. The grievant will have the opportunity to question the respondent(s) about their statements.

8. After all information is exchanged, all persons except the committee members and the recording secretary will leave the committee room. The grievant(s), the respondent(s), and the witnesses will continue to be available to the committee should further information be needed.

9. The committee will meet in closed session to decide upon its recommendation(s) to the dean.

10. The committee shall submit its report with recommendation(s) and reasons for the recommendation(s) to the grievant(s), the respondent(s), and the dean. If the grievance directly involves the dean, the report and recommendation(s) of the Unit Academic Grievance Committee shall be referred for decision to the appropriate academic vice president (now referred to as the University Provost).

11. The student’s grievance will not be included as part of the student’s record, unless it results in a change in student status or the student voluntarily inserts the information.

12. Until the grievance is resolved, the student may continue the natural academic progression through the academic unit, subject to the requirements of Article 6.6, “Academic Review, Advancement, Probation, and Dismissal of Students,” and Article 6.7, “Nonacademic Disciplinary Procedures,” of The Redbook.

Decision

The dean shall approve or reject the committee’s recommendation(s) within 28 days after receiving it (them). If the decision of the dean is not in accord with the committee’s recommendation(s), the dean shall state the reasons for that decision, in writing, to all persons directly involved in the grievance and to the committee. The dean shall then take appropriate action to implement his or her decision after the time for appeal has elapsed.

Rehearing

A grievance committee, within 21 days after delivery of its report, may be petitioned to reconsider its decision upon the basis of evidence of misrepresentation of materials, facts, or upon the basis of newly discovered evidence clearly not available at the original hearing.

Appeal

Any party to the grievance may appeal to the University Student Grievance Committee within 21 days from the date of the final decision of the dean if the dean’s decision does not concur with the recommendation of the grievance committee.

Leave of Absence

A student who has been accepted into a graduate program is expected to remain in continuous enrollment, either full-time or part-time, throughout his/her matriculation. Students who fail to enroll for a period of more than 12 months will be considered to have withdrawn from the program. Once a student enters candidacy, he/she must maintain continuous enrollment in degree candidacy (fall, spring, summer) and pay the appropriate candidacy fee.

However, if circumstances arise that may cause an interruption in graduate study a student may apply for a leave of absence by requesting such a leave from the unit dean. A requested leave cannot exceed one year; however, under extreme circumstances, a second, subsequent request may be granted by the Vice Provost for Graduate Affairs. Students must be considered in good standing for the request to be considered.

A student may not be enrolled in the university during a leave of absence. A student on a leave of absence is not required to pay tuition, fees, or candidacy fees, but is not entitled to any services from the university during the leave, including mentorship from faculty.

If a leave of absence is granted to a doctoral student in candidacy, the time limitation of completing all other requirements within four years after passing the qualifying examination shall be extended by the same time as the length of the leave. However, an appeal for an extension of this time limit, specifying the exact circumstances, can be included in the request for a leave or submitted as a variance request submitted to the
department for their review and recommendation to the unit dean; the final decision rests with the Vice Provost for Graduate Affairs.

No degree will be granted to a student on an official leave of absence. The student must re-enroll in the next term following the conclusion of the leave and be enrolled in the term in which a degree is granted. A leave of absence does not relieve a student from adherence to policies regarding residency and candidacy (except that the time limit for candidacy may be extended, as indicated in the previous paragraph).

Policies Governing Graduate Courses

Graduate Students Taking 500-Level Courses

Courses with numbers from 500 to 599 may be open to both advanced undergraduate and graduate students and can be taken by graduate students for graduate credit. Those numbered 600 and above are primarily for graduate students.

Graduate students who wish to receive graduate credit for 500-level courses must complete additional requirements (such as additional written work or oral presentations) that are more stringent than those required of undergraduates. These additional requirements for graduate credit must be specified in the course syllabi. The student's completion of graduate requirements must be verified in writing by the instructor if graduate credit is requested after the course is completed.

Not all 500-level courses are available for graduate credit. The student is advised to consult his/her department for information on any particular 500-level course.

Undergraduates Taking Graduate Courses

An undergraduate student with special permission of the unit dean and the instructor in the course may register in a 500-level course at the graduate level or in 600-level graduate courses. Such courses will satisfy requirements toward the undergraduate degree and therefore cannot be used for subsequent graduate credit. The student must be registered for at least one undergraduate course if requesting to enroll in a graduate course.

In rare cases, undergraduate students at the University of Louisville who are within six (6) semester hours of completing the baccalaureate requirements and who are enrolled in a graduate course may obtain graduate credit. This can only occur if the course has not been used to satisfy part of the baccalaureate requirements, and if the recommendation of the chairman of the department involved and the approval of the unit dean are obtained.

Accelerated Bachelor's/Master's Option

Undergraduate students enrolled in accelerated programs are eligible to register for graduate-level coursework. Students must apply for admission to the program no later than the end of the junior year to be eligible enroll in graduate coursework in their final year of the program.

The student may take a maximum of nine (9) credit hours for graduate credit, which will also apply to the requirements for the baccalaureate degree. Those nine (9) credit hours of graduate credit must be transferred to the student's graduate record after the student completes one semester as a graduate student. See actual degree program for further requirements.

Continuing Studies and Post-baccalaureate Students

Students enrolled through Continuing Studies are not eligible to enroll in graduate level courses.

Post-baccalaureate students who wish to take only graduate level courses should seek admission as a non-degree graduate student by applying through the School of Interdisciplinary and Graduate Studies. Students who wish to transfer coursework to a graduate degree must take the coursework as a non-degree graduate student or be admitted to a graduate degree program at the time of the request.
Student Awards

Programs may nominate graduate students for the following awards given at December and May commencement ceremonies. Those individuals who received their degrees in August must be nominated for consideration during the December commencement program.

Graduate Dean's Citation

Graduate Dean's Citations are awarded at each commencement to both masters and doctoral students recommended by their departments in recognition of superior accomplishment (e.g., publications, teaching excellence, and professional service) in their graduate studies beyond the achievement of a high grade point average.

Each graduate program may recommend up to 10 percent of its graduate students completing their degrees in August, December, and May of the academic year. Recommendations are to be based on the student's achievements both in their area of scholarship and outside the classroom. Nominations may be submitted to the Vice Provost for Graduate Affairs for the December and May commencements.

Alice Eaves Barns Award

This award is named in honor of Mrs. Alice Eaves Barns for her many years of outstanding service as a staff member of the former Graduate School, School of Interdisciplinary and Graduate Studies at the University of Louisville. This award recognizes a student who has displayed tenacity in the face of adversity while attaining excellence in both the classroom and outside endeavors. The award is given in recognition of outstanding achievement in a Master's Program. All students nominated for the Alice Eaves Barns award are automatically considered for a Graduate Dean's Citation.

Nominations may be submitted to the Vice Provost for Graduate Affairs for the December and May commencements.

The Virginia “Jenny” Madden Award for Graduate Student Leadership and Service

This award is named in honor of Virginia "Jenny" Madden for her many years of service to the former Graduate School, the School of Interdisciplinary and Graduate Studies, the Staff Senate, and the University of Louisville community. This award recognizes a master's degree recipient who exhibits leadership through service to the recipient's program, college, discipline, the University as a whole, and/or the community. The nomination letter must reference the student's contributions and the impact of those contributions on the communities served. All students nominated for the Virginia "Jenny" Madden award are automatically considered for a Graduate Dean’s Citation.

Nominations may be submitted to the Vice Provost for Graduate Affairs for the December and May commencements.

Guy Stevenson Award

The Guy Stevenson Award for Excellence in Graduate Studies honors a former dean of the former Graduate School, School of Interdisciplinary and Graduate Studies. The Stevenson Award is presented to a doctoral degree recipient who excels in scholarship, leadership, and other areas within their discipline. The recipient of this award will carry the School of Interdisciplinary and Graduate Studies banner at commencement ceremonies, and will also be a candidate for student commencement speaker; to be considered for the Stevenson Award, the student must be available for the ceremony. All students nominated for the Guy Stevenson award are automatically considered for a Graduate Dean’s Citation.

Nominations may be submitted to the Vice Provost for Graduate Affairs for the December and May commencements.

John Richard Binford Memorial Award

The John Richard Binford Memorial Award honors a former chairman of the Department of Psychology. Doctoral nominees for this award will be assessed in the same manner as those students considered for the Stevenson award. The recipient of this award is not required to attend commencement. All students nominated for the John Richard Binford Memorial award are automatically considered for a Graduate Dean’s Citation.

Nominations may be submitted to the Vice Provost for Graduate Affairs for the December and May commencements.

John M. Houchens Prize

The John M. Houchens Prize honors a former Registrar of the University. In the fall and spring of each year, doctoral dissertations are submitted to the School of Interdisciplinary and Graduate Studies for consideration. If one is deemed to be of special merit, a committee may recommend that its author be awarded the Houchens Prize. Only those students expected to complete their doctoral degree by the end of the current term (or August in the case of December consideration) are eligible for consideration of this award. All students nominated for the John M. Houchens prize are automatically considered for a Graduate Dean’s Citation.

Nominations may be submitted to the Vice Provost for Graduate Affairs for the December and May commencements.

Faculty Awards

Department chairs and directors of graduate programs and former graduate students and those graduating at the May ceremony may nominate a faculty member for the following awards given at the May ceremony.

Outstanding Mentor of a Doctoral Student

Mentor awards honor faculty members who are deemed to excel in one-on-one mentoring of master’s or doctoral students to the completion of their degrees; in other words, these awards are given to faculty who...
successfully direct theses or dissertations, supervise students in labs, oversee students’ internships or final professional papers.

**Provost’s Award for an Exemplary Director of Graduate Studies**

This award honors those who have graduate or professional student advising and/or administrative duties (as DGS) designated on their annual workload assignments and who excel at the work of advising graduate students regarding program requirements, career prospects, funding possibilities, and so on.
UNIVERSITY POLICIES AND PROCEDURES

Student Grievance Officer

The University of Louisville Student Grievance Officer is a tenured faculty member who is responsible for informing students of their rights and obligations under the University Student Grievance procedure and especially the deadlines that have been established.

The Grievance Officer will assist the student in efforts to achieve informal resolution in as many academic or non-academic complaints possible.

One of the main goals of the Student Grievance Officer is to establish an understanding among students, faculty, staff and administration when there is conflict.

Problems pertaining to grades, financial aid, University parking, housing, food services, registration, etc., may all be discussed with the Student Grievance Officer as a means of seeking direction for the pursuit of a resolution. Any aspect of the University that creates a problem for students is a matter of concern for the Student Grievance Officer.

This service is available to all students. Voicemail is available (502) 852-6293 but email (jhart01@louisville.edu) is the preferred method of contact.

Privacy of Student Records (FERPA)

The University of Louisville hereby notifies students concerning the Family Educational Rights and Privacy Act of 1974 (FERPA). This Act, with which the institution intends to comply fully, was designed to protect the privacy of educational records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading information. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office, Department of Education, concerning alleged failures by the institution to comply with the Act.

The University has adopted a policy which explains in detail the procedures to be used by the University for compliance with the provisions of the Act and the regulations adopted pursuant thereto. Copies of the policy can be obtained from the University Archives and Records Center, Ekstrom Library. Questions concerning the Family Educational Rights and Privacy Act may be referred to the Director, University Archives and Records Center or visit the website at: louisville.edu/library/archives/university/stupriv.

Drug-Free Schools and Campuses


Purpose and Goal

The University of Louisville is committed to protecting the safety, health and wellbeing of all students, faculty, and staff and other individuals in our workplace. As a recipient of federal grants and contracts, the university gives this notice to students, faculty, and staff that it is in compliance with the Drug-Free Workplace Act of 1988 (Pub. L. 100-690, Title V Subtitle D) and the Drug-Free Schools and Communities Act Amendment of 1989. Students, faculty and staff are herein notified of the standards of conduct that will be applicable while on university property, business, and/or at university-sponsored activities. This policy is incorporated and is a part of the official University of Louisville Policies and Procedures.

This policy recognizes that student, faculty, and staff involvement with alcohol and other drugs can be very disruptive, adversely affect the quality of work or academic performance of student, faculty, and staff, pose serious health risks to users and others, and have a negative impact on productivity and morale.

As a condition of employment or enrollment, the university requires that students, faculty, and staff adhere to a strict policy regarding the use and possession of drugs and alcohol. The university encourages students, faculty, and staff to voluntarily seek help with drug and alcohol problems.

Prohibited Behaviors

Under university regulations, federal law, state law, and, in some instances, local ordinance, students, faculty, and staff are prohibited from the unlawful possession, use, dispensation, distribution, or manufacture of illicit drugs on university property, on university business and/or at university-sponsored activities. Under this policy, students, faculty and staff are required to abide by state laws concerning alcoholic beverages.

Kentucky law (KRS 244.085: lrc.ky.gov/Statutes/statute.aspx?id=45137) states that, if one is under the age of 21, it is unlawful to:

- Possess or consume alcoholic beverages,
- Misrepresent one’s age for the purpose of purchasing alcoholic beverages, or
- Use a fake ID in an attempt to purchase alcoholic beverages.

It is unlawful for anyone of any age to:

- Procure any alcoholic beverages for anyone under 21 years of age,
- Drink or be intoxicated in a public place

(See Public Intoxication: lrc.ky.gov/Statutes/statute.aspx?id=19929)

University campuses and buildings are considered as public places for purposes of these laws, except for a facility licensed to serve alcoholic beverages, and a facility used as a private residence, unless university regulations state otherwise. Ordinances of the Greater Louisville area parallel the state laws.

The specifically defined standards of conduct, the disciplinary procedures, and the appropriate sanctions are detailed in the Code of
In addition, it is a violation of state law to operate a motor vehicle while under the influence of any substance that may impair one’s driving ability (drugs or alcoholic beverages).

Prescription and over-the-counter drugs are not prohibited when taken in standard dosage and/or according to a physician’s prescription. Any student, faculty, and staff taking prescribed or over-the-counter medications will be responsible for consulting the prescribing physician and/or pharmacist to ascertain whether the medication may interfere with job or academic performance.

The illegal or unauthorized use of prescription drugs is prohibited. It is a violation of our drug-free workplace to intentionally misuse and/or abuse prescription medications. Appropriate disciplinary action will be taken if job or academic performance deterioration and/or other accidents occur.

Consequences for Violating This Policy

Under university regulation, students who violate this standard of conduct are subject to student conduct action from a warning to expulsion from the University. Students who reside in university housing are subject to further conduct action that may vary from a warning to termination of their housing contract.

Notice of Drug-Related Conviction

In compliance with the Federal Drug-Free Workplace Act of 1988, any employee shall notify the immediate supervisor if the employee is convicted of a criminal drug offense occurring in the workplace or while on university business within five days of the conviction. The university shall take appropriate sanction and remedies in accordance within its policies. The provisions of this section are applicable to students who are employees of the university. If the employee is under a federal contract or grant, the university shall notify the contracting or granting agency of the conviction and of its actions. This section of this policy is also applicable to students who receive a Pell grant (federal grant).

Health Risks

The scope and impact of health risks from alcohol and drug use are both alarming and well documented, ranging from mood-altering to life-threatening, with consequences that extend beyond the individual to family, organizations and society at large. The university, therefore, conducts regular programs to educate its students, faculty, and staff that consumption and use of drugs may alter behavior, distort perception, impair thinking, impede judgment, and lead to physical or psychological dependence.

Alcohol and/or drug use may lead to the deterioration of physical health by causing or contributing to various health conditions including but not limited to fatigue, nausea, personal injury, insomnia, pathological organ damage, some forms of cancer, pancreatitis, heart attack, respiratory depression, birth defects, convulsions, coma, and even death. Alcohol and drug use may also result in deterioration of mental health by causing or contributing to various conditions such as increased aggression, hallucinations, depression, disorientation, and psychosis.

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increases the incidence of a variety of aggressive acts, including spouse and child abuse.

Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described. Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and intellectual disabilities. In addition, research indicates that children of alcoholic parents are at greater risk than other children of becoming alcoholics.

Training, Counseling, and Resources

The University of Louisville is committed to the overall health and well-being of students, faculty, and staff and encourages a compassionate university.

AlcoholEdu and Haven online prevention programs

AlcoholEdu alcohol prevention program and Haven sexual violence prevention program serve as starting points for ongoing campus prevention efforts. Every incoming undergraduate student is required to take AlcoholEdu (up to age 21) and Haven (all ages). Emails are sent to their UofL email account (beginning about 5 weeks before their first semester begins) to provide specific directions for logging on to AlcoholEdu and Haven. AlcoholEdu and Haven are two separate programs, each with two parts. There is no fee for either program.

Visit louisville.edu/campushealth/alcoholedu-haven for more information.

Kentucky Medical Amnesty Law

KRS 244.992 Medical amnesty for persons reporting an alcohol overdose:

(1) A person shall be immune from prosecution for the criminal offenses identified in subsection (2) of this section if:

(a) A law enforcement officer has contact with the person because the person:

1. Requests emergency medical assistance for himself or herself or another person;
2. Acts in concert with another person who requests emergency medical assistance; or
3. Appears to be in need of emergency medical assistance and is the individual for whom the request is made

Visit lrc.ky.gov/statutes/statute.aspx?id=42516 for full text.

Good Samaritan Consideration

The health and safety of our students is of the highest priority. At times, students may need immediate medical or other professional assistance. However, students may be reluctant to get help because of concerns that their own behavior may be a violation of the Code of Student...
Disability Resource Center
The Disability Resource Center coordinates services and programs for students and prospective students with disabilities. Accommodations and support services are individualized, depending on the needs of each student. Services and programs are designed to assure access for qualified students with disabilities to all programs and activities of the university.

Students are strongly encouraged to make early contact with the Disability Resource Center to assure adequate time to implement support services.

Please contact the Disability Resource Center at (502) 852-6938 or visit our webpage at louisville.edu/disability.

Americans with Disabilities Act
ADA Policy Statement University of Louisville
The University of Louisville is committed to providing equal opportunity for persons with disabilities in compliance with the Americans with Disabilities Act of 1990 (ADA), and Section 504 of the Rehabilitation Act of 1973 (504). The University’s 504/ADA Coordinator is responsible for all campus activities relevant to Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. The University Affirmative Action Officer will monitor compliance and assist all unit heads in meeting their equal opportunity obligations. The University Disability Resource Center staff will assist the university community in fulfilling its responsibility by serving as an information resource center and coordinating support services for students with disabilities.

ADA and 504 Grievance Procedures University of Louisville
The following grievance procedure is being recommended to provide prompt and equitable resolution of complaints concerning ADA and Section 504 of the Rehabilitation Act of 1973.

The University of Louisville ADA Grievance Procedure is an internal grievance procedure providing for prompt and equitable resolution of complaints alleging any action prohibited by the U.S. Department of Justice regulations implementing Title II of the Americans with Disabilities Act. Title II states, in part, that "no otherwise qualified individual with a disability shall, solely by reason of such disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination" in programs or activities sponsored by an agency.

General information regarding ADA or 504 can be addressed to:

Director
Disability Resource Center
Robbins Hall Room 101
Phone: (502) 852-6938

Complaints should be addressed to the person who has been designated to coordinate ADA compliance efforts:

Director
Affirmative Action Office
Personnel Services Building
Phone: (502) 852-6538

1. A complaint should be filed in writing, contain the name and address of the person filing it, and briefly describe the alleged violation. Upon receipt of the written notice of complaint, the Director of Affirmative Action/Employee Relations or his/her designee shall acknowledge receipt within five workdays.

2. A complaint should be filed within 180 days after the complainant becomes aware of the alleged violation.

3. An investigation, as may be appropriate, shall follow a filing of complaint. The investigation shall be conducted by the Affirmative Action Office. This internal Complaint procedure contemplates an informal but thorough investigation, affording all interested persons and their representatives, if any, an opportunity to submit evidence relevant to a complaint.

4. A written determination regarding the investigation of the complaint and a description of the resolution, if any, shall be issued by the Affirmative Action Office.

5. Affirmative Action Office and a copy forwarded to the complainant no later than 60 days after its filing.

6. The Affirmative Action Office shall maintain the files and records relating to the complaints filed.

7. The complainants may request a reconsideration of the case in instances where he or she is dissatisfied with the resolution. The request for reconsideration should be made within 15 work days after receipt of the determination to the Affirmative Action Office.
8. The right of a person to a prompt and equitable resolution of the complaint filed hereunder shall not be impaired by the person’s pursuit of other remedies such as the filing of an ADA complaint with the responsible federal department or agency. Use of this grievance procedure is not a prerequisite to the pursuit of other remedies.

9. These rules shall be construed to protect the substantive rights of interested persons, to meet appropriate due process standards, and to assure that the University complies with the ADA and implementing regulations.

Code of Student Conduct

The University’s Code of Student Conduct (“The Code”) is the University’s policy regarding non-academic discipline of students and student organizations. Academic dishonesty is not covered by this Code, but rather falls within the authority of the individual academic units of the University. Students have the responsibility to follow all regulations outlined in this policy.

The primary purpose for the Code in the University setting is to respond to incidents of non-academic misconduct in a way that is developmentally sound and which creates an environment where all members of the academic community can live, work, and learn together. The Code is designed to provide educational guidance to those choosing to develop into good citizens and, at the same time, to respond appropriately to behavior which may be inconsistent with university policies.

Criminal and civil codes are undesirable models for student conduct codes. Unlike society, the University of Louisville is a voluntary association of scholars who demand and deserve a positive and special learning environment, as well as an approach for enforcing the community’s standards. The University of Louisville is a community dedicated to the principles of free expression in which diverse views are encouraged and embraced. Opinions that may be unpopular and/or contrary to the University’s values and objectives, but do not otherwise violate policy, will not be sanctioned.

The University’s Code of Student Conduct is set forth in writing in order to give students general notice of non-academic prohibited conduct. The Code should be read broadly and is not designed to define non-academic misconduct in exhaustive terms. The Vice Provost for Student Affairs or designee is the final authority in defining and interpreting the Code of Student Conduct and conduct procedures. The University reserves the right to amend the Code of Student Conduct at any time.

The Code can be found at louisville.edu/dos/students/codeofconduct or by contacting the Dean of Students Office in SAC W301 or by phone at (502) 852-5787.

Code of Student Rights and Responsibilities

The Code of Student Rights and Responsibilities is set forth in writing in order to provide students with general notice of their rights and responsibilities at the University of Louisville. Further rights and responsibilities are set forth in other University rules and policies, including the Code of Student Conduct, Student Handbook, Residence Hall contracts, graduate and undergraduate catalog, and academic unit websites. It is a student’s responsibility to be aware of all University rules and policies. Students should check with the Dean of Students Office and with their academic units if they have any questions about the purposes or intent of these policies.

The Code of Student Rights and Responsibilities can be found at louisville.edu/dos/students/studentrightsandresponsibilities.

Student Handbook

Other policies and information for students can be found in the Student Handbook, online at louisville.edu/dos/students/studentpoliciesandprocedures/student-handbook.

Student Advocacy and Support

The Student Advocate helps students navigate educational, personal, and other campus obstacles that impact successful completion of their academic goals. The Student Advocate links students with appropriate university and community resources, and collaborates with faculty and staff in the best interest of the students and follows through to bring efficient closure to student concerns.

There are times when students may experience a number of different issues that impact their ability to be academically successful such as illness, death of an immediate family member, accident, critical issues such as sexual assault, harassment, domestic violence or other emergency situations. The Student Advocate works with students and their families to resolve the issue by identifying options and strategies and offering information and guidance. During difficult times, students should be empowered with the resources to make informed decisions and take a proactive role in the problem resolution process.

The Student Advocate is located in the Dean of Students Office, SAC W301. Please call (502) 852-5787 to schedule an appointment with the Student Advocate.

Student Grievance Officer

The Student Grievance Officer is responsible for informing students of their rights and obligations under the University grievance procedure. The Student Grievance Officer will seek to resolve informally as many grievances as possible.

For assistance, please contact Dr. Joy Hart at joy.hart@louisville.edu or call (502) 852-6293.
SCHOLARSHIPS AND UNIVERSITY FELLOWSHIPS

Graduate Assistantships
Graduate teaching, research, and service assistantships are available to qualified students in most graduate programs. These assistantships provide tuition remission, health insurance, and a stipend that is adequate to cover basic living expenses.

Applicants who are interested in being considered for assistantships, should contact the chair or graduate advisor of the department to which they are applying for admission, stating their desire to be appointed as a graduate assistant. The award of an assistantship is competitive; students who hope to be considered should present credentials that are well above the minimum required for admission.

The purpose of a graduate assistantship is to provide experience and training that augment a student’s academic program. The department chair or graduate advisor will attempt to place a student in an assistantship believed to best serve the career training objective of the student. Although a student is free to make known a preference for a particular placement, the final decision is the prerogative of the department in which the student is enrolled.

The distribution of assistantships across departments may differ from year to year. Moreover, some departmental policies require that a student complete 9-18 graduate credit hours in the program before being eligible for an assistantship.

Diversity Assistantships/Scholarships
The School of Interdisciplinary and Graduate Studies is committed to providing financial support for the recruitment and retention of qualified, under-represented students. An award candidate must be admitted to the degree program (MS or PhD) and be nominated by the Department Chair. These assistantships include a monthly stipend, tuition remission and health insurance.

Resigning an Offer of Financial Support
As a member of the Council of Graduate Schools in the United States, the University of Louisville subscribes to the Resolution Regarding Scholars, Fellows, Trainees, and Graduate Assistants (http://cgsnet.org/april-15-resolution):

Acceptance of an offer of financial support (such as a graduate scholarship, fellowship, trainee-ship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and the School of Interdisciplinary and Graduate Studies expect to honor. In that context, the conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another appointment without first obtaining a written release from any previously accepted offer. It is further agreed by the institutions and organizations subscribing to the above Resolution that a copy of the Resolution or a link to the URL should accompany every scholarship, fellowship, traineeship, and assistantship offer.

University Fellowships
A limited number of University fellowships may be awarded to outstanding students in the doctoral programs. These carry a generous stipend, health insurance, and full tuition remission. Nominations are made each spring to the Dean of the School of Interdisciplinary and Graduate Studies by the chairs of departments granting the doctorates. Students do not directly apply to the School of Interdisciplinary and Graduate Studies for these awards. Students who wish to be considered for fellowships should abide by the graduate program’s deadline for submitting application materials.

Financial Aid and Financial Settlement

Office of Student Financial Aid
The Office of Student Financial Aid serves prospective students, current students, and their parents with financial aid questions and needs.

Website: louisville.edu/financialaid
E-mail: finaid@louisville.edu
Call center: (502) 852-5511
Campus location: 110 Houchens Building, Belknap Campus

Website
On the Student Financial Aid website (http://www.louisville.edu/financialaid), visitors can access the following:

- Term-specific information on aid disbursement, residual funds, and financial aid advances;
- Financial aid news and upcoming important dates;
- Aid application and processing instructions;
- Award sources and types;
- UofL and outside scholarship postings;
- Consumer information.

E-Mail Service Account
Send your e-mail questions to finaid@louisville.edu. For specific account information, current students must e-mail the office from their UofL e-mail account. E-mail responses typically occur within 3 business days.

Call Center
Contact the call center at (502) 852-5511 from 9:00 a.m. to 5:00 p.m. Monday through Friday. On Thursdays, the call center opens at 12:30 p.m.

This service is intended to assist prospective students, current students, and parents with their general financial aid questions. We ensure students’ privacy by not disclosing account-specific information. Current students should have their student ID number ready when calling.

Office Hours
The Student Financial Aid Office provides walk-in counseling to both current and prospective students Monday, Tuesday, Wednesday, and Friday from 9:00 a.m. until 5:00 p.m.
On Thursdays, the office and call center are open from 12:30 p.m. to 5:00 p.m.

Check the Student Financial Aid Office website (http://louisville.edu/financialaid) for special hours during the August and January class registration periods.

Continuing Registration

Tuition and fees are due on, or before, the designated due date for the semester. Payment may be made by cash, check, money order, charge card (MasterCard, Visa), or financial aid credit. Payments may be made by mail, by use of the deposit box located in the front entrance of the Houchens Building, or at the Office of the Bursar.

Failure to receive a Statement of Account will not relieve the student of the responsibility for making financial settlement by the designated due date. Continuing registrations which are not financially settled by the designated due date may have their course registration cancelled and/or be assessed financial penalties. The Continuing Registration designated due dates are listed in the current Schedule of Courses and on the Bursar’s web site at: ulink.louisville.edu (Tuition-Fees-Payment Options, Payment Options). Students may view their account via ULink. Financial statements are no longer sent to students via mail. All account information may be found on the students ULink.

Regular Registration

Students who register after Continuing Registration should be prepared to fully settle financial obligations by the last day to drop/add for the semester. Failure to fully settle financial obligations may result in course cancellation and/or financial penalties.

Senior Citizen Tuition Remission

The University offers tuition remission to individuals who are classified as residents of Kentucky and are at least 65 years of age on, or before, the first day of classes for the semester. Special costs, such as course fees and parking, are not covered by this program and are the financial responsibility of the student. Proof of age may be shown by presenting a driver’s license or other age verification document at the Office of the Bursar.

These individuals must secure permission of the School of Interdisciplinary and Graduate Studies in order to enroll in graduate-level courses. Normal admission processes must be followed in order to gain admission to a degree program.

Financial Penalties

Students whose accounts are not paid by the established semester deadlines may be subject to financial penalties. Students with unpaid account balances will have a Bursar Registration Hold placed on their student account. Students that have a Bursar Registration Hold become ineligible for further registration and transcripts will not be released until the student account is paid in full. Effective Spring 2015 a late payment fee of $100.00 may be assessed when student accounts are not paid by the last day to drop/add for the semester. A return payment fee of $25.00 may be assessed when payment is not honored by the bank on which it was drawn. If restitution is not made within 10 days of notification, the student may be subject to financial penalties and/or legal action.

Debtors who do not make satisfactory payment arrangements on their past due accounts may have their accounts placed with a billing service. If not paid through the billing service, the unpaid account may be forwarded to a collection agency. It is the policy of the University that unpaid accounts will be assessed the costs and expenses of collection, including attorney fees. Any E-check or Paper Check payment that is remitted on a Past Due by a previously enrolled student will be subject to a 21-day delay in lifting the related Bursar Registration Hold.

Withdrawal Policy

The effective withdrawal date is the date on which the withdrawal is processed in the Student Records System. This date is used in calculating any applicable tuition reduction.

Financial Aid Recipients

Determinations regarding refunds of resulting credit balances will be based on regulations governing the financial aid awarded to the student.

Federal regulations mandate that students have the right to cancel all or a portion of an EFT loan disbursement and have the loan proceeds returned to the lender. To request cancellation of all or a portion of your loan, contact the Financial Aid Office in writing:

Financial Aid Office
University of Louisville
Louisville, KY 40292

For additional information contact Student Financial Aid Office or review our Consumer Information online at: louisville.edu/financialaid

Financial Settlement Options

Due dates, payment information, payment plan options, and payment plan forms for specific semesters is updated regularly on the Bursar’s web site at: ulink.louisville.edu

Tuition-Fees-Payment Options: Any questions may be directed to the Bursar’s Office 1) by phone at (502) 852-6503 or 2) by email at bursar@louisville.edu.
SPECIAL FACILITIES AND SERVICES

University Libraries

The extensive library system at the University of Louisville is designed to support undergraduate and graduate research; broad, university scholarship; and student and faculty success.

To these ends, the University Libraries provide services ranging from materials check-outs, research assistance, interlibrary loans and course reserves to loans of laptops, camcorders and flash drives. The libraries also provide study spaces, meeting rooms and presentation spaces. They house UofL resources like the Writing Center, the Delphi Center, and the TILL. Ultimately, University Libraries serve as academic common spaces for all students, faculty, and staff.

The University Libraries consist of:

- Ekstrom (Main) Library,
- Archives and Special Collections,
- The Margaret Bridwell Art Library,
- The Louis Brandeis Law Library,
- The Dwight Anderson Memorial Music Library, and
- The Kornhauser Health Sciences Library.

The Libraries’ collections are extensive. Total holdings exceed 2.2 million printed volumes; subscriptions to both print and electronic journals surpass 90,000. E-books, microfilm, and other formats such as DVDs are also included in the collection. Most of these materials can be found using the library’s website: louisville.edu/library.

In addition, the Libraries subscribe to over 300 online information databases in a wide variety of subject areas.

Interlibrary loan services provide study and research materials not owned by the University of Louisville Libraries from collections of other libraries.

For more information about the university’s libraries go to louisville.edu/undergraduate/about/libraries/.

University Archives and Records Center

The University Archives is a research repository of national significance. It contains primary sources relating to the university, Louisville, and the nation. It attracts students, faculty, and scholars from Louisville, from elsewhere in the U.S., and from other countries. It collects, preserves, and makes available for research historical manuscripts, oral history interviews, and other primary research materials, and thus serves as a research laboratory for humanists, social scientists, and others. Its collections include nineteenth and twentieth-century records of area businesses, cultural organizations, social service agencies, and churches; personal papers of politicians, scholars, members of the Jewish and African-American communities, women, and other prominent and representative Louisvillians; and publications, papers, and photographs documenting the history of the university. Students with class projects, theses, or dissertations requiring primary sources are invited to consult this office.

Information Technology Services

The Office of Information Technology (IT) offers numerous direct technology, computing and printing solutions in support of University of Louisville’s teaching, research and service missions. Serving students, faculty and staff, IT maintains campus wired and wireless networks and delivers enterprise administrative and academic applications. More information concerning IT services can be found at louisville.edu/it.

The university’s most popular websites feature University of Louisville’s email and ULink services. Students can log into their email as part of the Windows Office 365 tools provided to enrolled students at louisville.edu/email. A secure portal to the university’s information and services, ULink, connects students, faculty and staff to all of the necessary campus and administrative environments.

IT runs an online technology store, iTechXpress, with discounted software and downloads, and links to competitively-priced computers for students, faculty and staff. Check it out online at: louisville.edu/it/iTechXpress.

IT’s HelpDesk assists the University of Louisville community daily with regard to technology questions and issues. The IT HelpDesk can be reached at (502) 852-7997 or louisville.edu/it/helpdesk for online assistance. Additionally, IT’s iTech Connect provides free face-to-face technology consulting for students, faculty and staff. Located in the lower level of the Miller IT Center on Belknap campus, iTech Connect can help troubleshoot various technology problems like wireless connections, antivirus protection and digital device management.

On each campus, multiple computing centers and labs provide access to academic software and the Internet. iTech Zone, in the lower level of the Miller IT Center, is a primary computing facility with individual workstations and collaborative work areas on the Belknap campus. At this location IT offers, through a partnership with REACH, peer tutoring on general computing essentials, Microsoft software and basic computer programing. Additional public workstations are located throughout University of Louisville in high-traffic locations for email and Internet access.

IT maintains the university's extensive networking, including a 40 gigabit campus backbone network and a high-speed intercampus fiber network. Telephone services are provided through a voice over IP system equipped with emergency alerts. The university has access to high-speed Internet service through a 10Gbps connection to Internet2, the Kentucky Regional Optical Network (KyRON) and a 2Gbps Internet link to TWTelecom. Wireless Internet service is universally available for University of Louisville students, faculty and staff and guests across all campuses.

International Center

The International Center is the university-wide clearinghouse of information and resources for UofL faculty, students, and researchers involved in academic exchanges, overseas “live and learn” opportunities, and academic research.

The International Center promotes energetically the internationalization efforts of the University. It provides advice and counsel to UofL faculty, students, and researchers traveling abroad and assistance to international students, faculty, and researchers coming to UofL for study or work.
Interested individuals can email the International Center intcent@louisville.edu or visit louisville.edu/internationalcenter.

**Campus Housing**

Campus Housing promotes a safe, convenient, inclusive and healthy living-learning environment, providing opportunities that engage students, facilitate student and faculty connections and encourage student success.

For information about on-campus and off-campus options, please contact the Campus Housing office via one of the following:

- Website: louisville.edu/housing/
- Phone: (502) 852-6636
- Email: oncampus@louisville.edu

**Counseling Center**

The mission of the Counseling Center is to provide services and programs that support the psychological well-being, holistic development, and retention of University of Louisville students. The Counseling Center provides short term individual, group, and couples counseling, outreach, urgent consultation, and psychological testing for currently enrolled students (psychiatric services are provided by Campus Health).

Our clients seek services for a variety of areas of concern, including psychological, personal/social, academic, and career issues.

There is a fee for psychological testing, but all other services are covered by your student fee. Services are confidential to the limits provided by law.

We are committed to diversity in the provision of services and in supporting the University community, while honoring the unique needs and concerns of individuals and traditionally underrepresented groups.

- **UofL Counseling Center**
  - Cardinal Station, 215 Central Ave, Suite 201 (Second floor)
  - louisville.edu/counseling
  - (502) 852-6585

There is free parking, and we are along the 94 Shuttle route.

The Center is open Monday—Friday from 8:00 am—5:00 pm, and we provide urgent consultations on a walk-in basis from 8:30—4:30.

We honor all University Holidays, early closings, and delayed starts, and are closed on Oaks Day.

For more information, including descriptions of our current groups and workshops, please call us or visit our website (http://louisville.edu/counseling).

**Campus Health Services**

**Student Medical and Psychiatric Services**

The Campus Health Service provides medical and psychiatric services to undergraduate, graduate and professional students. Services include primary care, psychiatric, travel medicine and nutritional consults as well as allergy injections, immunizations, sports physicians and diagnostic testing.

Although all students are encouraged to call for appointments, walk-in and same day appointments are generally available at both locations. Charges for medical services are applied to the student’s insurance and/or health fees. Students are responsible for any balance not covered by insurance or fees. Psychiatric services are covered through student fees.

There are two Campus Health Centers that serve health needs of our students. The centers are located at:

- **Belknap Campus Location**
  - Cardinal Station
  - 215 Central Ave. Suite 110
  - (502) 852-6479

- **Health Sciences Center Location**
  - Health Care Outpatient Center (HCOC)
  - 410 E. Chestnut St. Suite 110
  - (502) 852-6446

**Health Insurance and Health Fees**

All non-health professional students are charged the Primary Care Health Fee (PCHF) which can be waived with proof of health insurance. The fee entitles students to basic services at the health centers such as examinations and allergy injections. This fee is not health insurance and does not provide for specialty care, hospitalization, x-ray or laboratory services. The PCHF fee is can be waived with proof of health insurance or used as a supplement to the student’s insurance.

All students enrolled in a program of study that requires them to train in the University's Affiliated Hospitals such as the MD, DMD, Dental Hygiene, Audiology, and Speech Pathology programs are required to carry major medical insurance and pay a non-waivable Health Professionals Health Fee (HPHF). Students in these programs are charged for the university-sponsored insurance plan but may waive it with proof of alternate coverage. A university-sponsored student insurance plan which complies with the Affordable Care Act (ACA) is available for students to purchase.

For additional information about Campus Health Fees, contact the Insurance Advocate via email at stuins@louisville.edu or visit: louisville.edu/campushealth/information/fees/primary-care-health-fee

- **Campus Insurance Advocate**
  - Cardinal Station
  - 215 Central Ave. Suite 110
  - (502) 852-6519

**Office of Health Promotion and Education**

Campus Health Services Office of Health Promotion provides a variety of health education programming and services, which include yoga, stress/sleep management, free HIV and syphilis testing, sexual health workshops, healthy eating, cooking skills, smoking cessation, massage therapy, and physical fitness testing.

- **Office of Health Promotion and Education**
  - Student Activities Center
  - 2100 South Floyd Street, room W309
  - (502) 852-5429

For additional information about Campus Health Services Office of Health Promotion, visit louisville.edu/healthpromotion

**Student Life**

Housing and Residence Life, Intramural and Recreational Sports, Student Activities, Greek Life, Recognized Student Organizations, Student Government Association, ACCESS (Adult Services), Service...
Learning, Swain Student Activities Center Administration, Student Disciplinary Services, Counseling Center, Career Development Center, and International Service Learning Program.

**Disability Resource Center**

The Disability Resource Center coordinates services and programs for students and prospective students with disabilities. Accommodations and support services are individualized, depending on the needs of each student. Services and programs are designed to assure access for qualified students with disabilities to all programs and activities of the university.

Students are strongly encouraged to make early contact with the Disability Resource Center to assure adequate time to implement support services.

Please contact the Disability Resource Center at (502) 852–6938 or visit our webpage at louisville.edu/disability.
RESIDENCY POLICY

Residency

KRS 164.020(8) requires the Kentucky Council on Postsecondary Education (CPE) to determine tuition and approve the minimum qualifications for admission to a state postsecondary education institution and authorizes CPE to set different tuition amounts for residents of Kentucky and for nonresidents. 13 KAR 2:045, Determination of Residency Status for Admission and Tuition Assessment Purposes (p. 7) establishes the procedure and guidelines for determining the residency status of a student who is seeking admission to, or who is enrolled at, a state-supported postsecondary education institution.

Deadline for Filing Residency Appeals

An application for a review of a determination of residency status shall be filed in the Office of Student Services no later than 30 days after the first day of classes of the term for which a determination of residency status is requested. Academic calendars are available in the Schedule of Courses, the university website, and Offices of Admission. Pursuant to 13 KAR 2:045, Determination of Residency Status for Admission and Tuition Assessment Purposes (p. 7), an institution may set other deadlines for submission of other information required by the Institution in a determination of residency status.

For specific information regarding the filing of an application, please refer to the Council on Postsecondary Education document 13 KAR 2:045, Determination of Residency Status for Admission and Tuition Assessment Purposes. Copies of the policy document are available in the Office of Student Services and Offices of Admission.

An application for a review of a determination of residency status shall be submitted to the Registrar’s Office no later than thirty (30) calendar days after the first day of class of the semester for which a determination of residency status is required. Please use caution when mailing your appeal to ensure postmark on or before the deadline. Academic calendars are available in the Schedule of Courses, the university website, and Offices of Admission. Pursuant to 13 KAR 2:045, Determination of Residency Status for Admission and Tuition Assessment Purposes, an institution may set other deadlines for submission of additional information required by the Institution in a determination of residency status. Deadline dates are posted on the University's residency website louisville.edu/residency.

For specific information regarding the filing of an application, please refer to the Council on Postsecondary Education document 13 KAR 2:045, Determination of Residency Status for Admissions and Tuition Assessment Purposes. Copies of the policy document are available in the Office of Admission, Registrar’s Office, and printable from the university’s residency website.

Submit the completed, signed, and notarized affidavit with all accompanying documentation to:

Registrar’s Office
Houchens Building, Room LL31
University of Louisville
Louisville KY 40292

13 KAR 2:045.

Determination of residency status for admission and tuition assessment purposes.


STATUTORY AUTHORITY: KRS 164.020(8)

NECESSITY, FUNCTION, AND CONFORMITY: KRS 164.020(8) requires the Council on Postsecondary Education to determine tuition and approve the minimum qualifications for admission to a state postsecondary education institution and authorizes the Council to set different tuition amounts for residents of Kentucky and for nonresidents. This administrative regulation establishes the procedure and guidelines for determining the residency status of a student who is seeking admission to, or who is enrolled at, a state-supported postsecondary education institution.

Section 1. Definitions.

1. "Academic term" means a division of the school year during which a course of studies is offered, and includes a semester, quarter, or single consolidated summer term as defined by the institution.
2. "Continuous enrollment" means enrollment in a state-supported postsecondary education institution at the same degree level for consecutive terms, excluding summer term, since the beginning of the period for which continuous enrollment is claimed unless a sequence of continuous enrollment is broken due to extenuating circumstances beyond the student's control, such as serious personal illness or injury, or illness or death of a parent.
3. "Degree level" means enrollment in a course or program that could result in the award of a:
   a. Certificate, diploma, or other program award at an institution;
   b. Baccalaureate degree or lower, including enrollment in a course by a nondegree-seeking post baccalaureate student;
   c. Graduate degree or graduate certification other than a first-professional degree in law, medicine, dentistry, or "Pharm. D";
   d. Professional degree in law, medicine, dentistry, or "Pharm. D".
4. "Dependent person" means a person who cannot demonstrate financial independence from parents or persons other than a spouse and who does not meet the criteria for independence established in Section 5 of this administrative regulation.
5. "Determination of residency status" means the decision of a postsecondary education institution that results in the classification of a person as a Kentucky resident or as a nonresident for admission and tuition assessment purposes.
6. "Domicile" means a person's true, fixed, and permanent home and is the place where the person intends to remain indefinitely, and to which the person expects to return if absent without intending to establish a new domicile elsewhere.
7. "Full-time employment" means continuous employment for at least forty-eight (48) weeks at an average of at least thirty (30) hours per week.
8. "Independent person" means a person who demonstrates financial independence from parents or persons other than a spouse and who
meets the criteria for independence established in Section 5 of this administrative regulation.

9. "Institution" means an entity defined by KRS 164.001(12) if the type of institution is not expressly stated and includes the Kentucky Virtual University, the Council on Postsecondary Education, and the Kentucky Higher Education Assistance Authority.

10. "Kentucky resident" means a person determined by an institution for tuition purposes to be domiciled in, and a resident of, Kentucky as determined by this administrative regulation.

11. "Nonresident" means a person who:
   a. Is domiciled outside Kentucky;
   b. Currently maintains legal residence outside Kentucky; or
   c. Is not a Kentucky resident as determined by this administrative regulation.

12. "Parent" means one (1) of the following:
   a. A person’s father or mother; or
   b. A court-appointed legal guardian if:
      i. The guardianship is recognized by an appropriate court within the United States;
      ii. There was a relinquishment of the rights of the parents; and
      iii. The guardianship was not established primarily to confer Kentucky residency on the person.

13. "Preponderance of the evidence" means the greater weight of evidence or evidence that is more credible and convincing to the mind.

14. "Residence" means the place of abode of a person and the place where the person is physically present most of the time for a noneducational purpose in accordance with Section 3 of this administrative regulation.

15. "Student financial aid" means all forms of payments to a student if one (1) condition of receiving the payment is the enrollment of the student at an institution, and includes student employment by the institution or a graduate assistantship.

16. "Sustenance" means:
   a. Living expenses, such as room, board, maintenance, and transportation; and
   b. Educational expenses, such as tuition, fees, books, and supplies.

Section 2. Scope.

1. State-supported postsecondary education institutions were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to postsecondary education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to postsecondary education shall be provided so far as feasible at reasonable cost to a qualified individual who is domiciled in Kentucky and who is a resident of Kentucky.

2. In accordance with the duties established in KRS 164.020, the Council on Postsecondary Education may require a student who is neither domiciled in, nor a resident of, Kentucky to meet higher admission standards and to pay a higher level of tuition than resident students.

3. Unless otherwise indicated, this administrative regulation shall apply to all student residency determinations, regardless of circumstances, including residency determinations made by:
   a. The state-supported institutions for prospective and currently-enrolled students;
   b. The Southern Regional Education Board for contract spaces;
   c. Reciprocity agreements, if appropriate;
   d. The Kentucky Virtual University;
   e. Academic common market programs;
   f. The Kentucky Educational Excellence Scholarship Program; and
   g. Other state student financial aid programs, as appropriate.

Section 3. Determination of Residency Status; General Rules.

1. A determination of residency shall include:
   a. An initial determination of residency status by an institution:
      i. During the admission process;
      ii. Upon enrollment in an institution for a specific academic term; or
      iii. For admission into a specific academic program;
   b. A reconsideration of a determination of residency status by an institution based upon a changed circumstance; or
   c. A formal hearing conducted by an institution upon request of a student after other administrative procedures have been completed.

2. An initial determination of residency status shall be based upon:
   a. The facts in existence when the credentials established by an institution for admission for a specific academic term have been received and during the period of review by the institution;
   b. Information derived from admissions materials;
   c. If applicable, other materials required by an institution and consistent with this administrative regulation; and
   d. Other information available to the institution from any source.

3. An individual seeking a determination of Kentucky residency status shall demonstrate that status by a preponderance of the evidence.

4. A determination of residency status shall be based upon verifiable circumstances or actions.

5. Evidence and information cited as the basis for Kentucky domicile and residency shall accompany the application for a determination of residency status.

6. A student classified as a nonresident shall retain that status until the student is officially reclassified by an institution.

7. A student may apply for a review of a determination of residency status once for each academic term.

8. If an institution has information that a student’s residency status may be incorrect, the institution shall review and determine the student’s correct residency status.

9. If the Council on Postsecondary Education has information that an institution’s determination of residency status for a student may be incorrect, it may require the institution to review the circumstances and report the results of that review.

10. An institution shall impose a penalty or sanction against a student who gives incorrect or misleading information to an institutional official, including payment of nonresident tuition for each academic term for which resident tuition was assessed based on an improper determination of residency status. The penalty or sanction may also include:
    a. Student discipline by the institution through a policy written and disseminated to students; or
    b. Criminal prosecution.

Section 4. Presumptions Regarding Residency Status.

1. In making a determination of residency status, it shall be presumed that a person is a nonresident if:
Section 5. Determination of Whether a Student is Dependent or Independent.

1. In a determination of residency status, an institution shall first determine whether a student is dependent or independent. This provision shall be predicated on the assumption that a dependent person lacks the financial ability to live independently of the person upon whom the student is dependent, and therefore, lacks the ability to form the requisite intent to establish domicile. A determination that a student is independent shall be one (1) step in the overall determination of whether a student is or is not a resident of Kentucky.

2. In determining the dependent or independent status of a person, the following information shall be considered, as well as other relevant information available when the determination is made:
   a. Whether the person has been claimed as a dependent on the federal or state tax returns of a parent or other person for the year preceding the date of application for a determination of residency status; or
   b. Whether the person is no longer claimed by a parent or other person as a dependent or as an exemption for federal and state tax purposes; and
   c. Whether the person has financial earnings and resources independent of a person other than an independent spouse necessary to provide for the person’s own sustenance.

3. An individual who enrolls at an institution immediately following graduation from high school and remains enrolled shall be presumed to be a dependent person unless the contrary is evident from the information submitted.

4. Domicile may be inferred from the student’s permanent address, parent’s mailing address, or location of high school of graduation.

5. Marriage to an independent person domiciled in and who is a resident of Kentucky shall be a factor considered by an institution in determining whether a student is dependent or independent.

6. Financial assistance from, or a loan made by, a parent or family member other than an independent spouse, if used for sustenance of the student:
   a. Shall not be considered in establishing a student as independent; and
   b. Shall be a factor in establishing that a student is dependent.

Section 6. Effect of a Determination of Dependent Status on a Determination of Residence Status.

1. The effect of a determination that a person is dependent shall be:
   a. The domicile and residency of a dependent person shall be the same as either parent. The domicile and residency of the parent shall be determined in the same manner as the domicile and residency of an independent person; and
   b. The domicile and residency of a dependent person whose parents are divorced, separated, or otherwise living apart shall be Kentucky if either parent is domiciled in and is a resident of Kentucky, regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to federal or Kentucky income tax provisions.

2. If the parent or parents of a dependent person are Kentucky residents and are domiciled in Kentucky, but subsequently move from the state:
   a. The dependent person shall be considered a resident of Kentucky while in continuous enrollment at the degree level in which currently enrolled; and
   b. The dependent person’s residency status shall be reassessed if continuous enrollment is broken or the current degree level is completed.

Section 7. Member or Former Member of Armed Forces of the United States, Spouse and Dependents; Effect on a Determination of Residency Status.

1. A member, spouse, or dependant of a member whose domicile and residency was Kentucky when inducted into the Armed Forces of the United States, and who maintains Kentucky as home of record and permanent address, shall be entitled to Kentucky residency status:
   a. During the member’s time of active service; or
   b. If the member returns to this state within six (6) months of the date of the member’s discharge from active duty.

2. A member of the armed services on active duty for more than thirty (30) days and who has a permanent duty station in Kentucky shall be classified as a Kentucky resident and shall be entitled to in-state tuition, as shall the spouse or a dependent child of the member.

3. A member, spouse, or dependent of a member shall not lose Kentucky residency status if the member is transferred on military orders while the member, spouse, or dependent requesting the status is in continuous enrollment at the degree level in which currently enrolled.

4. Membership in the National Guard or civilian employment at a military base alone shall not qualify a person for Kentucky residency status under the provisions of subsections (1) and (2) of this section. If a member of the Kentucky National Guard is on active duty status for a period of not less than thirty (30) days, the member shall be considered a Kentucky resident, as shall the spouse or a dependent child of the member.

5. A person eligible for benefits under the federal Post-9/11 Veterans Educational Assistance Act of 2008, 38 U.S.C. 3301-3325, or any other educational benefits provided under Title 38 of the United States Code shall be entitled to Kentucky resident status for purposes of tuition charged at state-supported institutions.

6. A person’s residency status established pursuant to this section shall be reassessed if the qualifying condition is terminated.
Section 8. Status of Nonresident Aliens; Visas and Immigration.

1. A person holding a permanent residency visa or classified as a political refugee shall establish domicile and residency in the same manner as another person.

2. A person holding a nonimmigrant visa with designation A, E, G, H-1, H-4 if accompanying a person with an H-1 visa, I, K, L, N, R, shall establish domicile and residency the same as another person.

3. An independent person holding a nonimmigrant visa with designation B, C, D, F, H-2, H-3, H-4 if accompanying a person with an H-2 or H-3 visa, J, M, O, P, Q, S, TD, or TN shall not be classified as a Kentucky resident because that person does not have the capacity to remain in Kentucky indefinitely and therefore cannot form the requisite intent necessary to establish domicile as defined in Section 1(6) of this administrative regulation.

4. A person shall be a Kentucky resident for the purpose of this administrative regulation if the person graduated from a Kentucky high school and:
   a. Is an undocumented alien;
   b. Holds a visa listed in subsections (2) or (3)(a) of this section; or
   c. Is a dependent of a person who holds a visa listed in subsections (2) or (3)(a) of this section.

5. Except as provided in paragraph (b) of this subsection, a person who has petitioned the federal government to reclassify visa status shall continue to be ineligible until the petition has been granted by the federal government.

Section 9. Beneficiaries of a Kentucky Educational Savings Plan Trust.

A beneficiary of a Kentucky Educational Savings Plan Trust shall be granted residency status if the beneficiary meets the requirements of KRS 164A.330(6).

Section 10. Criteria Used in a Determination of Residency Status.

1. A determination of Kentucky domicile and residency shall be based upon verifiable circumstances or actions.

b. A single fact shall not be paramount, and each situation shall be evaluated to identify those facts essential to the determination of domicile and residency.

c. A person shall not be determined to be a Kentucky resident by the performance of an act that is incidental to fulfilling an educational purpose or by an act performed as a matter of convenience.

d. Mere physical presence in Kentucky, including living with a relative or friend, shall not be sufficient evidence of domicile and residency.

e. A student or prospective student shall respond to all requests for information regarding domicile or residency requested by an institution.

2. The following facts, although not conclusive, shall have probative value in their entirety and shall be individually weighted, appropriate to the facts and circumstances in each determination of residency.

a. Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining residence and domicile in Kentucky;

b. Continuous physical presence in Kentucky while in a nonstudent status for the twelve (12) months immediately preceding the start of the academic term for which a classification of Kentucky residency is sought;

c. i. Filing a Kentucky resident income tax return for the calendar year preceding the date of application for a change in residency status; or
   ii. Payment of Kentucky withholding taxes while employed during the calendar year for which a change in classification is sought;

d. Full-time employment of at least one (1) year while living in Kentucky;

e. Attendance as a full-time, nonresident student at an out-of-state institution based on a determination by that school that the person is a resident of Kentucky;

f. Abandonment of a former domicile or residence and establishing domicile and residency in Kentucky with application to or attendance at an institution following and incidental to the change in domicile and residency;

g. Obtaining licensing or certification for a professional and occupational purpose in Kentucky;

h. Payment of real property taxes in Kentucky;

i. Ownership of real property in Kentucky, if the property was used by the student as a residence preceding the date of application for a determination of residency status;

j. Marriage of an independent student to a person who was domiciled in and a resident of Kentucky prior to the marriage; and

k. The extent to which a student is dependent on student financial aid in order to provide basic sustenance.

3. Except as provided in subsection (4) of this section, the following facts, because of the ease and convenience in completing them, shall have limited probative value in a determination that a person is domiciled in and is a resident of Kentucky:

a. Kentucky automobile registration;

b. Kentucky driver’s license;

c. Registration as a Kentucky voter;
Section 12. Student Responsibilities.

1. A student shall report under the proper residency classification, which includes the following actions:
   a. Raising a question concerning residency classification;
   b. Making application for change of residency classification with the designated office or person at the institution; and
   c. Notifying the designated office or person at the institution immediately upon a change in residency.

2. If a student fails to notify an institutional official of a change in residency, an institutional official may investigate and evaluate the student's residency status.

3. a. If a student fails to provide, by the date specified by the institution, information required by an institution in a determination of residency status, the student shall be notified by the institution that the review has been canceled and that a determination has been made.
   b. Notification shall be made by registered mail, return receipt requested.
   c. Notification shall be made within ten (10) calendar days after the deadline for receipt of materials has passed.

4. a. The formal hearing conducted by an institution and the final recommended order shall be a final administrative action with no appeal to the Council on Postsecondary Education.
   b. A formal administrative hearing conducted by the Council on Postsecondary Education for residency determinations related to eligibility for the Academic Common Market and Regional Contract Programs shall be conducted pursuant to the provisions of KRS Chapter 13B and 13 KAR 2:070. The recommended order issued by the President of the Council shall be a final administrative action.

5. A student shall not be entitled to appeal a determination of residency status if the determination made by an institution is because a student has failed to meet published deadlines for the submission of information as set forth in subsection (3) of this section. A student may request a review of a determination of residency status in a subsequent academic term.

Section 13. Institutional Responsibilities.

Each institution shall:

1. Provide for an administrative appeals process that includes a residency appeals officer to consider student appeals of an initial residency determination and which shall include a provision of fourteen (14) days for the student to appeal the residency appeals officer's determination;

2. Establish a residency review committee to consider appeals of residency determinations by the residency appeals officer. The residency review committee shall make a determination of student residency status and notify the student in writing within forty-five (45) days after receipt of the student appeal;

3. Establish a formal hearing process as described in Section 14 of this administrative regulation; and

4. Establish written policies and procedures for administering the responsibilities established in subsections (1), (2), and (3) of this section and that are:
   a. Approved by the institution's governing board;
   b. Made available to all students; and
   c. Filed with the council.


1. A student who appeals a determination of residency by a residency review committee shall be granted a formal hearing by an institution if the request is made by a student in writing within fourteen (14) calendar days after notification of a determination by a residency review committee.

2. If a request for a formal hearing is received, an institution shall appoint a hearing officer to conduct a formal hearing. The hearing officer shall:
   a. Be a person not involved in determinations of residency at an institution except for formal hearings; and
   b. Not be an employee in the same organizational unit as the residency appeals officer.

3. An institution shall have written procedures for the conduct of a formal hearing that have been adopted by the board of trustees or regents, as appropriate, and that provide for:
   a. A hearing officer to make a recommendation on a residency appeal;
   b. Guarantees of due process to a student that include:
      i. The right of a student to be represented by legal counsel; and
      ii. The right of a student to present information and to present testimony and information in support of a claim of Kentucky residency; and
   c. A recommendation to be issued by the hearing officer.
   d. An institution's formal hearing procedures shall be filed with the Council on Postsecondary Education and shall be available to a student requesting a formal hearing.

Section 15. Cost of Formal Hearings.

1. An institution shall pay the cost for all residency determinations including the cost of a formal hearing.

2. A student shall pay for the cost of all legal representation in support of the student's claim of residency. (17 Ky.R. 2557; eff. 4-5-1991; Am. 22 Ky.R. 1656; 1988; eff. 5-16-1996; 23 Ky.R. 3380; 3797; 4099; eff.
6-16-1997; 24 Ky.R. 2136; 2705; 25 Ky.R. 51; eff. 7-13-1998; 25 Ky.R.
2177; 2577; 2827; eff. 6-7-1999; 749; 1238; eff. 11-12-2002; 36 Ky.R.
1083; 1951; 2033-M; eff. 4-2-2010; TAm eff. 11-20-2014; 41 Ky.R.
2108; 42 Ky.R. 9; eff. 7-13-2015; TAm 7-13-2015).
Institutional Accreditation

The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, bachelor, master, specialist, doctoral, and first-professional degrees (DMD, JD, MD).

Individuals who wish to contact the Commission on Colleges regarding the accreditation status of the university may do so at:

Southern Association of Colleges and Schools Commission on Colleges
1866 Southern Lane
Decatur, Georgia 30033-4097
or call (404) 679-4500

Professional Accreditations

Accountancy (C, BS, MAC): Association to Advance Collegiate Schools of Business (AACSB International) (http://www.aacsb.edu)

Art Therapy (MEd): (Expressive Therapies) American Art Therapy Association (http://arttherapy.org)

Audiology (AuD): Council on Academic Accreditation in Audiology and Speech-Language Pathology (http://caa.asha.org)

Business (Undergraduate and Graduate): Association to Advance Collegiate Schools of Business (AACSB International) (http://www.aacsb.edu)

Chemistry (BS): American Chemical Society (ACS) (http://www.acs.org/content/acs/en/about/governance/committees/training/acspapproved.html)

Clinical Psychology (PhD): American Psychological Association (APA) (http://www.apa.org)

Clinical Mental Health Counseling (MEd): Council for Accreditation of Counseling and Related Educational Programs (CACREP) (http://www.cacrep.org)

Computer Engineering and Computer Science (BS): Computing Accreditation Commission of ABET, Inc. (http://www.abet.org)

Counseling Psychology (PhD): American Psychological Association (APA) (http://www.apa.org)

Dental Hygiene (BS): Commission on Dental Accreditation of the American Dental Association (CODA) (http://www.ada.org/en/coda)

Dentistry (C, MSD, DMD): Commission on Dental Accreditation of the American Dental Association (CODA) (http://www.ada.org/en/coda)


Engineering (BS and MEng): Engineering Accreditation Commission of ABET, Inc. (http://www.abet.org)

(Bioengineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, Computer Engineering and Computer Science programs)

Exercise Physiology (MS)/Exercise Science (BS): Committee on Accreditation for the Exercise Sciences (CoAES) (http://www.coaes.org)

Family Therapy (MSSW): Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) (http://www.aamft.org/IMIS15/About/About_COAMFTE/Content/COAMFTE/COAMFTE.aspx)

Interior Design (BA): Council for Interior Design Accreditation (CIDA) (http://accredit-id.org)

Law: Section of Legal Education and Admissions to the Bar of the American Bar Association (ABA) (http://www.americanbar.org/aba.html), Association of American Law Schools (AALS) (http://www.aals.org)

Medicine (MD): Liaison Committee on Medical Education, a Joint Committee of the American Medical Association and the Association of American Medical Colleges (LCME) (http://lcme.org)


Music Therapy (BM): National Association of Schools of Music (NASM) (http://nasm.arts-accredit.org)

Nursing (BSN, MSN, PhD): Commission on Collegiate Nursing Education (CCNE) (http://www.aacn.nche.edu/ccne-accreditation)

Paralegal Studies (AA): Section on Paralegal Education of the American Bar Association (ABA) (http://apps.americanbar.org/legalservices/paralegals/directory)

Public Administration (MPA): National Association of Schools of Public Affairs and Administration (NASPAA) (http://www.naspaa.org)

Public Health (C, MS, MPH, PhD): Council on Education for Public Health (CEPH) (http://ceph.org)

School Counseling (MEd): Council for Accreditation of Counseling and Related Educational Programs (CACREP) (http://www.cacrep.org)


Speech-Language Pathology (MS): Council on Academic Accreditation in Audiology and Speech-Language Pathology (http://caa.asha.org)
Sport Administration (BS, MS): Commission on Sports Management Accreditation (COSMA) (http://www.cosmaweb.org)

Theatre Arts (BS, MFA): National Association of Schools of Theatre (NAST) (https://www.arts-accredit.org)

Urban Planning (MUP): Planning Accreditation Board (PAB) (http://www.planningaccreditationboard.org)

Other Accreditation/Recognition

Clinical Chemistry (post-doctoral): Commission on Accreditation in Clinical Chemistry (COMACC) (http://www.comacc.org/Pages/default.html)

Cooperative Education (Speed School): American Council for Cooperative Education (ACCE)

Continuing Medical Education: Accreditation Council for Continuing Medical Education (AACME) (http://www.accme.org)

Counseling Center: International Association of Counseling Services (IACS) (http://www.iacsinc.org)

Early Learning Center: National Association for the Education of Young Children (NAEYC) (http://www.naeyc.org)

Fort Knox Education Center: Military Installation Education Review (2009)

Graduate Medicine (House Staff): Accreditation Council for Graduate Medical Education (ACGME) (https://www.acgme.org/acgmeweb)

Human Subjects Protection Program: Association for the Accreditation of Human Research Protection Programs, Inc. (AAHRPP) (http://www.aahrpp.org)

Research Resource Center: Association for Assessment and Accreditation of Laboratory Animal Care, International (AAALAC) (http://www.aaalac.org)

Resources for Academic Achievement (REACH) Tutor Training: College Reading & Learning Association (CRLA), International Tutor Training Program Certification (ITTPC) (https://www.crla.net/index.php/certifications/ittpc-international-tutor-training-program)

Strength Conditioning-Exercise Science (BS)/Exercise Physiology (MS): National Strength and Conditioning Association (http://www.nsca.com)[NSCA] Education Recognition Program

Disclosures
State Authorization for Distance Education Activities
The University of Louisville seeks to deliver all of our online programs in every state. We work through the State Authorization Reciprocity Agreement (SARA) process and with states directly to ensure that when authorization or licensure is necessary, required approvals are obtained. SARA is a voluntary agreement that allows states and institutions to offer distance education in other participating states so long as the institution adheres to certain quality and consumer protection standards. More information on SARA can be found here (http://www.nc-sara.org).

Kentucky is a member of SARA and UofL is an approved SARA institution. Though SARA authorizes the University to offer its programs in member states, there is the possibility that other state requirements not covered by SARA (such as requirements from state licensing boards) could necessitate the restriction of certain programs in certain states. Please note that should you choose to enroll in a restricted program in a particular state, there may be restrictions that could affect you.

Examples could include:

- You may be unable to sit for local licensing in that state
- You may be ineligible for consumer protection in that state
- You may not be able to complete field placements (practicum, internship, clerkship, etc.) in that state. This could affect licensure or recognition of the degree to meet particular requirements in that state.

Therefore, if you decide to enroll in any of the University of Louisville’s restricted programs, or if you move during the course of your studies to a state where your program is restricted, please be aware that you are taking a risk that you may not be able to complete that program or use any of the credit earned in that program should you decide to pursue licensing in that field in that state. Please note that the risks listed above are not exhaustive. Please verify with your state’s professional licensing board that your plans are not impacted by these risks before enrolling in an online program.

For more information on online program availability in your state, please visit louisville.edu/online/About-Us/state-authorization-regulations.

For important consumer disclosures relating to such issues as professional licensure, please visit louisville.edu/online/About-Us/state-authorization-disclosures.

For more information and disclosures, please visit louisville.edu/online/About-Us/state-authorization-regulations.
PROGRAMS OF STUDY

Doctor of Audiology – AuD (p. 847)

Doctor of Nursing Practice (p. 1005) – DNP (p. 1005)

Doctor of Education – EdD
  • Educational Leadership and Organizational Development

Specialist in Education – EdS
  • Educational Administration - Instructional Leadership

Doctor of Philosophy – PhD
  • Anatomical Science and Neurobiology
  • Art History
  • Biochemistry and Molecular Genetics
  • Biology
  • Biostatistics
  • Chemical Engineering
  • Chemistry
  • Civil Engineering
  • Clinical Psychology
  • Computer Science and Engineering
  • Counseling and Personnel Services
  • Criminal Justice
  • Curriculum and Instruction
  • Educational Leadership and Organizational Development
  • Electrical Engineering
  • English Rhetoric and Composition
  • Entrepreneurship
  • Experimental Psychology
  • Humanities
  • Industrial Engineering
  • Interdisciplinary Studies
  • Interdisciplinary Studies: Specialization in Bioinformatics
  • Interdisciplinary Studies: Specialization in Translational Bioengineering

Master of Arts – MA
  • Anthropology
  • Art (Creative) and Art History
  • Communication
  • English
  • French, Language (p. 934) and Literature
  • Higher Education Administration
  • History
  • Humanities
  • Interdisciplinary Studies
  • Interdisciplinary Studies: Concentration in Bioethics and Medical Humanities (p. 960)
  • Interdisciplinary Studies: Concentration in Sustainability (p. 962)
  • Mathematics
  • Pan-African Studies
  • Political Science
  • Sociology
  • Spanish
  • Women’s and Gender Studies

Master of Accountancy – MAc (p. 834)

Master of Arts in Teaching – MAT
  • Art Education
  • Early Childhood Education (Interdisciplinary)
  • Early Elementary Education
  • Health and Physical Education
  • Middle School Education
  • Middle School Education - Alternative Certification (5-9)
  • Music Education
  • Secondary Education
  • Secondary Education - Alternative Certification (8-12)
• Special Education, Concentration in Moderate/Severe Disabilities (P-12)
• Special Education, Concentration in Moderate/Severe Disabilities (P-12) - Alternative Certification

Master of Business Administration – MBA (p. 867)

Master of Education – MEd
• Community Health
• Counseling and Personnel Services
• Instructional Technology
• Literacy
• Special Education
• Special Education (Non-Teaching)
• Teacher Leadership

Masters Engineering – MEng
• Bioengineering (p. 852)
• Chemical Engineering (p. 872)
• Civil Engineering (p. 881)
• Computer Engineering Computer Science (p. 892)
• Electrical Engineering (p. 919)
• Engineering Management (p. 925)
• Industrial Engineering (p. 950)
• Mechanical Engineering (p. 976)

Master of Fine Arts – MFA
• Studio Art and Design
• Theatre Arts

Master of Music – MM
• Music Composition
• Music History and Literature
• Music Performance
• Music Theory

Master of Music Education in Music Education – MME (p. 992)

Master of Public Administration – MPA (p. 1030)

Master of Public Health – MPH (p. 1032)

Master of Science – MS
• Anatomical Science and Neurobiology
• Biochemistry and Molecular Genetics
• Biology
• Biostatistics
• Business Analytics
• Chemical Engineering
• Chemistry
• Civil Engineering
• Communicative Disorders
• Computer Science
• Criminal Justice
• Electrical Engineering
• Epidemiology
• Exercise Physiology
• Geography, Applied (p. 935)
• Health Administration
• Health Data Analytics
• Human Resources and Organization Development
• Industrial Engineering
• Interdisciplinary Studies
• Interdisciplinary Studies: Concentration in Sustainability (p. 962)
• Mechanical Engineering
• Microbiology and Immunology
• Oral Biology
• Pharmacology and Toxicology
• Physics
• Physiology and Biophysics
• Sport Administration

Master of Science in Clinical Investigation Sciences – MSc (p. 886)

Master of Science in Dentistry (p. 910) – MSD (p. 910)

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Master of Science in Social Work – MSSW (p. 1054)

Master of Urban Planning – MUP (p. 1082)

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• Asian Studies (p. 846)
• Autism and Applied Behavior Analysis (p. 848)
• Biostatistics
• Clinical Investigative Sciences (p. 885)
• Cybersecurity (p. 908)
• Data Science (p. 909)
• Diversity Literacy (p. 912)
• Environmental Engineering (p. 929)
• Franchise Management (p. 940)
• Health Professions Education (p. 970)
• Latin American and Latino Studies (p. 980)
• Medieval and Renaissance Studies (p. 980)
• Pan-African Studies (p. 1009)
• Police Executive Leadership Development (p. 1025)
• Public History (p. 1048)
• Real Estate Development (p. 1049)
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Programs for Certified Teachers (Rank 1)

• Certified School Counselors (p. 870)
• Elementary Education (p. 924)
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Endorsements for Certified Teachers

• Elementary Mathematics Specialist (P-5) (http://louisville.edu/education/degrees/endorsements)
• Gifted and Talented Education (P-12) (http://louisville.edu/education/degrees/endorsements)
• Instructional Computer Technology (P-12) (http://louisville.edu/education/degrees/endorsements)
• Teacher Leadership (P-12) (http://louisville.edu/education/degrees/endorsements)
• Teaching Classroom Reading (P-12) (http://louisville.edu/education/degrees/endorsements)
• Teaching English as a Second Language (P-12) (http://louisville.edu/education/degrees/endorsements)
• Literacy Specialist (P-12) (http://louisville.edu/education/degrees/endorsements)

College of Arts and Sciences

• African American Theatre (CERT) (p. 835)
• Anthropology (MA) (p. 841)
• Art (Creative) and Art History (MA) (p. 843)
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• Asian Studies (CERT) (p. 846)
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• Chemistry (MS) (p. 876)
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- Higher Education Administration (MA) (p. 941)
- Human Resources and Organization Development (MS) (p. 944)
- Instructional Technology (MED) (p. 954)
- Interdisciplinary Early Childhood Education (MAT) (p. 913)
- Literacy (MED) (p. 970)
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Dual Degree Programs

A dual degree program is a formalized path of study that allows a student to pursue two different degrees at the same time, either at the same institution or at different institutions, and possibly complete them in less time than it would take to earn them separately. The two degrees may be in the same subject or in two different subjects; they may be at the same level (e.g., master's-master's) or at two different levels (e.g., doctoral-master's).

Students must meet the admission requirements for both degree programs. Other limitations or requirements may apply, depending on the program. Interested individuals may click on the links below for additional information.

Dual Dentistry-Graduate Degree Programs

- Combined Doctor of Dental Medicine and Master of Science (DMD/MS) (http://louisville.edu/dentistry/degrees/oralbiology/dmd-msob)
- Combined Doctor of Dental Medicine and Doctor of Philosophy (DMD/PhD) (http://louisville.edu/dentistry/degrees/oralbiology/dmd-Phd)

Dual Law-Graduate Degree Programs

- Combined Juris Doctor and Master of Arts in Humanities (JD/MA) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master of Arts in Interdisciplinary Studies with a concentration in Bioethics and Medical Humanities (JD/MA) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master of Arts in Pan-African Studies (JD/PhD) (http://louisville.edu/dentistry/degrees/oralbiology/dmd-Phd)
- Combined Juris Doctor and Master of Science in Clinical Investigation (MD/MSc) (http://louisville.edu/medschool/dualdegree/md-msc)
- Combined Juris Doctor and Master of Science in Divinity (JD/MDiv) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)

with Louisville Presbyterian Theological Seminary

Dual Medicine-Graduate Degree Programs

- Combined Doctor of Medicine and Master of Business Administration (MD/MBA) (http://louisville.edu/medschool/dualdegree/MBA)
- Combined Doctor of Medicine and Master of Science in Clinical Investigation (MD/MSc) (http://louisville.edu/medschool/dualdegree/md-msc)
- Combined Doctor of Medicine and Master of Arts in Bioethics and Medical Humanities (MD/MA) (http://louisville.edu/medschool/dualdegree/MD-MA)
- Combined Doctor of Medicine and Doctor of Philosophy (MD/PhD) (http://louisville.edu/medschool/dualdegree/PhD)

- Combined Juris Doctor and Master of Business Administration (JD/MBA) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master of Science in Social Work (JD/MSSW) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master of Urban Planning (JD/MUP) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)

Combined Juris Doctor and Master of Arts in Political Science (JD/MA) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master of Business Administration (JD/MBA) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master of Science in Social Work (JD/MSSW) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
- Combined Juris Doctor and Master Urban Planning (JD/MUP) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)

Combined Juris Doctor and Master of Science in Divinity (JD/MDiv) (https://louisville.edu/law/academics/degree-programs/dual-degree-programs)
Online Master's Degrees

- Biostatistics (MS) (http://louisville.edu/online/programs/index/masters/master-of-science-in-biostatistics)
- Civil Engineering (MS) (http://louisville.edu/online/programs/index/masters/master-of-science-in-civil-engineering)
- Computer Science (MS) (http://louisville.edu/online/programs/index/masters/master-of-science-in-computer-science)
- Criminal Justice (MS) (http://louisville.edu/online/programs/index/masters/master-of-science-in-criminal-justice)
- Engineering Management (MEng) (http://louisville.edu/online/programs/index/masters/master-of-engineering-in-engineering-management)
- Higher Education Administration (MA)—with concentrations (http://louisville.edu/online/programs/index/masters/master-of-arts-in-higher-education)
- Human Resources and Organization Development (MS)—with concentrations (http://louisville.edu/online/programs/index/masters/master-of-science-in-human-resources-and-organization-development)
- Social Work (MS)—with areas of specialization (http://louisville.edu/online/programs/index/masters/master-of-science-in-social-work)
- Special Education (MED)—with concentrations (http://louisville.edu/online/programs/index/masters/master-of-education-in-special-education)
- Sport Administration (MS) (http://louisville.edu/online/programs)
- Teacher Leadership (MEd)—with endorsements and concentrations (http://louisville.edu/online/programs/index/masters/master-of-education-in-teacher-leadership)

Online Graduate Certificates

- Cybersecurity (http://louisville.edu/online/programs/certificate-programs/graduate-certificate-in-cybersecurity)
- Data Science (http://louisville.edu/online/programs/certificate-programs/graduate-certificate-in-data-science)
- Franchise Management (http://louisville.edu/online/programs/certificate-programs/franchise-management)
- Structural Engineering (http://louisville.edu/online/programs/certificate-programs/structural-engineering)
- Transportation Engineering (http://louisville.edu/online/programs/certificate-programs/transportation-engineering)

Teaching Endorsements

- Classroom Reading (P-12) (http://louisville.edu/online/programs/teaching-endorsements/classroom-reading-endorsement)
- English as a Second Language (ESL) (P-12) (http://louisville.edu/online/programs/teaching-endorsements/english-as-a-second-language-endorsement)
- Instructional Technology (P-12) (http://louisville.edu/online/programs/teaching-endorsements/instructional-technology-endorsement)

Accountancy (MAC)

Masters of Accountancy (ACCYMAC)
Unit: College of Business (http://business.louisville.edu) (GB)
Department: Accountancy (http://louisville.edu/accountancy)
Program Webpage: business.louisville.edu/master-of-accountancy/

Program Information

The College of Business Master of Accountancy at the University of Louisville is offered once each year, with a new cohort starting in August. Admission to the Master of Accountancy program is highly competitive. The College of Business Master of Accountancy program requires completion of an undergraduate degree majoring in accounting, or completion of an accounting Certificate Program, or equivalent prior to admission. GMAT scores and letters of reference are required (the GMAT requirement may be waived if specified academic standards are met). The program is cohort-based and includes 30 credit hours of required coursework.

The Master of Accountancy is a 12-month cohort-based program. The program fee is $21,000. Application requirements include an undergraduate degree majoring in accounting or equivalent (with official university transcripts), a GMAT or GRE test result, two letters of reference, and an application fee. The GMAT requirement may be waived in certain circumstances, based on academic performance in an undergraduate degree program.

Admission Requirements

It is recommended that your application be submitted within 30 days of creating your account, thereby providing you sufficient time to focus on the Graduate Management Admission Test (GMAT). Contact the University of Louisville MBA Office with any questions via telephone (502) 852-7257 or email mba@louisville.edu.

- Create application account
  Visit UofMAC.com and click “APPLY NOW.”
- Two letters of recommendation
  Within the application, submit names and email addresses of your recommenders. They will receive an email invitation on your behalf. Your recommenders should speak to your character, academic aptitude, etc.
- Professional resume
  Within the application, upload your resume.
- Personal statement
  Within the application, attach a 1–2 page Word document describing your interest in the University of Louisville MAC program, why you selected the University of Louisville, your short and long term goals and any additional information you feel is relevant.
- Submit and pay application fee
- Official college transcript(s)
  Order an official college transcript from all colleges attended, including the degree granting institution.

Mail transcripts to:

  College of Business, MBA Office
University of Louisville
Louisville, KY 40292

E-Transcripts will be accepted from the institution only. Have these sent to mba@louisville.edu.

• **Graduate Management Admission Test (GMAT)**
  The admissions application includes a field in which you can provide your GMAT test date and/or scores. If you have not scheduled the GMAT, please visit www.mba.com for details. Once registered, notify the UofL MBA office by sending an email to mba@louisville.edu with Subject Line: GMAT Test Date. We recommend allocating 6-8 weeks of preparatory time and encourage you to attend the Free GMAT workshops offered monthly at the College of Business. Note: We will accept the GRE in lieu of the GMAT.

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**International Applicants**
We welcome all international applicants. Please be aware there are documents required in addition to the above list. Visit business.louisville.edu/graduate-programs/grad-admissions/ and open the International Applicant Checklist

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**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 620</td>
<td>Advanced Audit and Assurance Services</td>
<td>3</td>
</tr>
<tr>
<td>MAC 622</td>
<td>Advanced Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MAC 630</td>
<td>Ethical Judgment and Decision Making</td>
<td>1.5</td>
</tr>
<tr>
<td>MAC 632</td>
<td>Leadership for Professional Accountants</td>
<td>1.5</td>
</tr>
<tr>
<td>MAC 640</td>
<td>CPA Preparation and Review AUD</td>
<td>1.5</td>
</tr>
<tr>
<td>MAC 648</td>
<td>Statistics for Auditors</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 624</td>
<td>Advanced Topics in Federal Taxation</td>
<td>3</td>
</tr>
<tr>
<td>MAC 638</td>
<td>Data Analytics for Professional Accountants</td>
<td>3</td>
</tr>
<tr>
<td>MAC 642</td>
<td>CPA Preparation and Review REG</td>
<td>1.5</td>
</tr>
<tr>
<td>MAC 644</td>
<td>CPA Preparation and Review BEC</td>
<td>1.5</td>
</tr>
<tr>
<td>MAC 650</td>
<td>White Collar Crime</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 626</td>
<td>Advanced Corporate Financial Reporting</td>
<td>3</td>
</tr>
<tr>
<td>MAC 634</td>
<td>User Perspectives on Financial Reporting</td>
<td>1.5</td>
</tr>
<tr>
<td>MAC 646</td>
<td>CPA Preparation and Review FAR</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

| Minimum Total Hours | 30 |

Courses and timing are subject to change.

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**African American Theatre (CERT)**

**Graduate Certificate in African American Theatre (AATHCAT)**
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences) (GA)
Department: Theatre Arts
Program Webpage: louisville.edu/theatrearts/academics/graduate-studies/graduate-certificate-in-african-american-theatre

**Program Information**
The first (and only) graduate program in African American Theatre in the region.

Requires 15 hours of graduate credit: nine (9) hours in African American Theatre, three (3) hours of theatre-related Community Service, and three (3) hours of Electives.

Can be completed as a stand-alone program or in conjunction with another graduate program (any area).

The certificate program is specially designed for:

- Persons preparing for professional careers in the theatre arts
- Teachers, Government and Community Agency Professionals
- Individuals with a passion for theatre and performance from Africa and the African Diaspora
- Graduate students at the University of Louisville and other institutions

**Admission Requirements**

**Application for Admission**

- All candidates for admission to graduate programs must complete the online application form (http://louisville.edu/graduate/apply).
- Consult with your intended program for specific application deadlines.
- A new application must be received any time a student is beginning a graduate program, transferring graduate programs, changing from non-degree to degree-seeking status, or adding a dual or certificate program to an existing degree program.
- **Note:** The University of Louisville reserves the right to change programs of study, academic requirements, fees, schedules of courses, the announced academic calendar and deadlines without prior notice.

**Application Fee**

- A non-refundable application fee is required with the application form. Your application will not be forwarded to the department until
this fee is paid. Please note the following graduate application fee requirements: louisville.edu/graduate/futurestudents/application-directions

Transcripts
- Applicants for admission to a degree program must submit an official transcript from each college attended. All University of Louisville transcripts will automatically be submitted with the completion of an application. Transcripts must be sent directly from the school to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, in order to be considered official.
- Applications to non-degree or certificate programs need only submit an official transcript certifying at least a bachelor’s degree.

Test Scores
- Applicants for admission to most graduate degree programs must take the general section of the Graduate Record Examination (GRE). Consult with your intended program for specific test requirements. GRE Information can be obtained from www.ets.org/gre (http://www.ets.org/gre) or 1-866-473-4373.
- Applicants applying as non-degree or visiting students are not required to submit test scores.

English Proficiency
- All applicants for whom English is a second language must also submit official TOEFL scores of 79 or higher on the internet-based test, 213 or higher on the computer-based test, or 550 or higher on the paper-based test for verification of English proficiency. English proficiency can also be met by submitting official IELTS scores of at least 6.5 overall band score from the academic module exam.
- Information concerning the TOEFL exam can be obtained from www.ets.org/toefl (http://www.ets.org/toefl) or 1-877-863-3546.
- Information concerning the IELTS exam can be obtained from www.ielts.org (http://www.ielts.org).
- Students holding a bachelor’s or advanced degree from an accredited institution in the United States may be exempt from this requirement.

Visiting Student Certification
- All visiting students must submit a Visiting Student Letter. The letter should verify that the student is in good standing in a graduate program, indicate the specific term for which the student has permission to enroll, list the approved courses to be taken, and be signed by the registrar or dean of the student’s home school. It must be sent via regular mail; faxed or emailed copies will not be accepted.
- Other than the application and the application fee, the Visiting Student letter is the only credential required of visiting students.

Recommendations
- Two letters of recommendation from persons familiar with the applicant’s academic work are required. There are programs that require more than two letters of recommendation. Please check with your department for additional requirements.
- Applicants applying for non-degree or visitor status are not required to submit letters of recommendation. Letter of Recommendation may be completed electronically via the online application (http://louisville.edu/graduate/apply).

Additional Requirements
- All credentials and/or communications submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions should contain the student’s full name, Social Security Number or University of Louisville issued student ID, and date of birth. Lack of this information may cause processing to be delayed.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 566</td>
<td>Advanced History of African-American Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TA 654</td>
<td>Independent Study in Community Service</td>
<td>3</td>
</tr>
<tr>
<td><em>Elective in History, Literature, and Theory (min 3 credits)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 563</td>
<td>Advanced African-American Women in Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TA 565</td>
<td>Advanced Theatre of the African World</td>
<td>3</td>
</tr>
<tr>
<td>TA 664</td>
<td>Approaching African-American Theatre</td>
<td>3</td>
</tr>
<tr>
<td><em>Elective in Performance, Design, Production and Dramaturgy (min 3 credits)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 532</td>
<td>Advanced Directing the Black Experience</td>
<td>3</td>
</tr>
<tr>
<td>TA 547</td>
<td>Advanced Black Aesthetic on Stage</td>
<td>3</td>
</tr>
<tr>
<td>TA 625</td>
<td>MFA Performance Project I (in an approved play)</td>
<td>1</td>
</tr>
<tr>
<td>TA 650</td>
<td>Theatre Internship</td>
<td>3</td>
</tr>
<tr>
<td>TA 655</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives in Pan-African Studies (min 3 credits)</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

*Other elective approved by the Director of the AATP or Department Chair
**Course must be approved by the Director of the AATP or Department Chair

Anatomical Sciences and Neurobiology (MS)

Master of Science in Anatomical Science and Neurobiology (ASNBMS)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department: Anatomical Science and Neurobiology (http://louisville.edu/medicine/departments/anatomy)
Program Webpage: louisville.edu/medicine/departments/anatomy/graduateprograms

Program Information

Thesis Option
The thesis MS program is available to qualified individuals possessing a bachelor’s degree from an accredited college or university. No specific undergraduate major is required, although some science background is required.

The thesis MS degree is offered to students who want to continue their education in Anatomy and Neurobiology and offers the student the opportunity to improve his/her background for career development, such as for higher education programs such as a PhD program, Dental or Medical School.

Non-thesis Option
A terminal non-thesis Master of Science Degree in the Department of Anatomical Sciences and Neurobiology provides students with comprehensive training and teaching experience in Anatomy and Neurobiology. This program is designed to prepare students for a variety of career options. For example, students may complete this program to prepare for further professional training, or to qualify for teaching
positions. Students in the Human Anatomy and Neurobiology Degree (H.A.N.D.) option will complete part of the first year medical and/or dental school curriculum offered at the University of Louisville. They will also participate as a teaching assistant (TA) in two of these classes. The program can be completed in three or four semesters. Acceptance into the ASNB master’s thesis program does not guarantee a spot in the non-thesis H.A.N.D. program track.

To be eligible to participate in the H.A.N.D. program and become a TA, students must earn a grade of B or better when taking the class the previous year. Entry into the H.A.N.D. program is competitive due to limited availability of open TA positions. While in the H.A.N.D. program, students must maintain a B average. At the end of the final semester in the H.A.N.D. program, each student must give a seminar presentation to the department regarding some aspect of their teaching experience (topic to be determined in consultation with the H.A.N.D. program student advisor). Following completion of the program, if students are admitted to the University of Louisville Medical or Dental School, they may be eligible to substitute electives for the first-year classes in which they served as a teaching assistant while in the H.A.N.D. program.

All degree programs require full-time study and it is expected that while participating in these programs, students will devote full-time effort toward completion of the degree requirements.

**Admission Requirements**

All students who wish to apply must submit an application to the School of Interdisciplinary and Graduate Studies, Graduate Admissions with the following documents:

1. A formal application (http://louisville.edu/graduate/apply) submitted to the School of Interdisciplinary and Graduate Studies.
2. Application fee.
3. A minimum of two letters of recommendation.
4. Official transcripts of all college work.
5. Official scores on the Graduate Record Examination (GRE) General Test and/or MCAT.
6. A brief statement of purpose describing your interests and career goals.
7. All international applicants whose native language is not English must submit Test of English as a Foreign Language (TOEFL) scores. Students holding a bachelor’s or advanced degree from an accredited institution in the United States are exempt from this requirement.

Program candidates are only admitted in the fall semester (orientation begins the first Monday in August). Review of applications begins mid-January and continues until all positions are filled. Admission into the program is competitive, and applicants are encouraged to submit their applications early.

**Requirements for the Thesis MS Degree**

Students should familiarize themselves with the general requirements for the master's degree as stated in the current University of Louisville Graduate Catalog. Briefly, a minimum of 30 credit hours is required for the master’s degree, of which 15 credit hours must be in courses of the major subject area.

At least one-half of the credits counted toward the degree must be 600-level courses or above. This does not include research credit hours. The department imposes the following additional requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNB 601</td>
<td>Gross Anatomy</td>
<td>varies depending on courses selected</td>
</tr>
<tr>
<td>ASNB 602</td>
<td>Fundamentals of Neuroscience</td>
<td></td>
</tr>
<tr>
<td>ASNB 605</td>
<td>Human Embryology</td>
<td></td>
</tr>
<tr>
<td>ASNB 617</td>
<td>Seminar on Developmental Neurobiology</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 614</td>
<td>Molecular Neuroscience</td>
<td></td>
</tr>
<tr>
<td>ASNB 666</td>
<td>Synaptic Organization of the Central Nervous System</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 672</td>
<td>Survey of Dental Gross and Neuroanatomy</td>
<td></td>
</tr>
<tr>
<td>ASNB 671</td>
<td>General and Oral Histology</td>
<td></td>
</tr>
<tr>
<td>ASNB 606</td>
<td>Anatomy Seminar (taken each semester prior to candidacy)</td>
<td>1/semester</td>
</tr>
</tbody>
</table>

Electives (see notes below): varies

Minimum Total Hours: 30

1 Offered on a rotational basis

**Seminar**

Anatomy Seminar (ASNB 606, 1 credit hr) must be taken for credit each semester prior to candidacy.

**Electives**

Additional courses (electives) within ASNB or graduate level courses in other departments may be taken to achieve the minimum requirement of 30 credit hours. The student should consult with his/her advisor on the selection of the appropriate electives.

**Research Hours**

Research credit hours may be taken as Laboratory Rotation (ASNB 618), which is graded on a pass/fail basis, prior to choosing a mentor. Once a mentor is chosen, research hours are taken as Original Investigation (ASNB 619), in which students earn a letter grade.

**Candidacy**

After completion of all requirements (as outlined above), students enter Master’s Candidacy and must register for and maintain candidacy (MAST 600) until the successful defense of his/her thesis. This registration must be maintained year round (fall, spring and summer semesters) until the degree is awarded. Once a student registers for MAST 600, he/she may not register for additional courses. The statute of limitation for obtaining a Master’s degree is six years from the beginning of the program of study.

**Original Research**

Students will conduct this required research under the direction of a member or joint/associate member of the departmental faculty (hereafter known as the thesis advisor). Faculty reserve the right to decline accepting a student.

During the first year of enrollment, students are required to visit the laboratories of potential advisors to become acquainted with the faculty and the research opportunities available. Selection of an advisor and the initiation of a research project should be concluded prior to the end of the
first year, at which time a written agreement, signed by both the student and thesis advisor, will be filed with the Graduate Program Director.

**Thesis**

A thesis master of science degree requires more than the completion of a prescribed curriculum of course work, a written thesis based on original research, and a successful oral defense. By its nature, original research does not always achieve positive results within a specific period of time. Therefore, no specific time can be given for the successful completion of this degree. Note that students are advised to complete the majority of their course work in the first year so that adequate time is allotted in the second year to complete their research and thesis. Specifically, students will be required to engage full-time in research for the equivalent of two academic semesters and maintain steady and satisfactory progress. Faculty advisors submit Graduate Student Progress Reports biannually to the ASNB Graduate Program Committee for review.

**Reading Committee**

The composition requirements of, and specific deadlines related to, the Reading Committee appear in the Graduate Catalog. Briefly, the Reading Committee is composed of the student’s advisor and two other faculty, one of which is from a different department. All three must be members of the graduate faculty. This committee should be established shortly after the student and her/his advisor agree on a specific research project. To avoid unnecessary delays the student should regularly consult with her/his thesis advisor and committee members concerning the direction and progress of the research project. Once in Master’s candidacy, the student should meet with their committee at least once per semester.

**Thesis Defense**

The MS candidate will focus exclusively on completing their research projects and writing a thesis describing the results of their experiments. It is expected that the thesis should contain data sufficient for approximately one publishable manuscript. Upon completion of the thesis, the student will distribute a copy to each committee member. The committee will have two weeks to read the thesis and give approval to schedule a defense date or recommend changes that must be completed prior to scheduling a defense date. Once the thesis is approved by the committee, the student will schedule a thesis defense. The School of Interdisciplinary and Graduate Studies requires that an announcement of the defense be posted at least two weeks prior to the scheduled date. The defense will consist of an oral presentation (approximately 30 minutes in length) of the research completed during the student’s graduate training. Non-committee members in the audience will then ask questions. The general audience will then be dismissed and the student will defend his/her thesis before the committee. Completion of the MS degree will be determined by majority vote of the committee.

**Program Information**

Our philosophy is to encourage academic excellence in the neurosciences within a framework of structure-function relationships at the molecular, cellular, and systemic levels. We strive to prepare students with sufficient background depth to excel in high tech cutting-edge translational (applied) research environments and the more traditional multi-disciplinary academic setting. We provide students with innovative approaches to important issues in neuroscience research including development, organization, and plasticity. Our research interests range from sensory and motor systems to therapeutic strategies for spinal cord injuries. In all approaches, we strive to integrate the latest teaching modalities while maintaining the time-honored advantages of hands-on, laboratory-based instruction.

The degree program is available to qualified individuals possessing a bachelor’s degree from an accredited college or university. No specific undergraduate major is required, although some science background is required.

The PhD degree is offered to students who plan to pursue a career in research and/or teaching, in an academic institution or within the industry.

All degree programs require full-time study, and it is expected that while participating in these programs students will devote full-time effort toward completion of the degree requirements.

**Admission Requirements**

All students wishing to apply must submit an application to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, with the following documents:

- A formal application submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions (see website: louisville.edu/graduate/apply for forms and directions)
- Application fee
- A minimum of two letters of recommendation
- Official transcripts of all college work
- Official scores on the Graduate Record Examination (GRE) General Test
- A brief statement of purpose describing your interests and career goals
- All international applicants whose native language is not English must submit Test of English as a Foreign Language (TOEFL) scores. Students holding a bachelor’s or advanced degree from an accredited institution in the United States are exempt from this requirement

Program candidates are only admitted in the fall semester (orientation begins the first Monday in August). Review of applications begins mid-January and continues until all positions are filled. Admission into the program is competitive, and applicants are encouraged to submit their applications early. All applications are automatically considered for a fellowship, which provides a stipend and covers tuition and health insurance.

**Program Requirements**

All PhD students must complete the requirements for the non-thesis MS degree, after which they will be considered a PhD candidate.

A minimum of 30 credit hours is required for the master’s degree of which 15 credit hours must be in courses of the major subject area. At
least one-half of the credits counted toward the degree must be 600-level courses or above, excluding research credit hours. Courses with numbers from 500 to 599, open to both advanced undergraduate and graduate students, can be taken by graduate students for graduate credit (additional course requirements must be completed). In addition, up to 6 credit hours of earned graduate semester hours can be transferred upon request from other accredited institutions, as long as the coursework was taken within the past three years and a grade of B or better was earned (transferred grades do not get calculated in the student's GPA).

Listed elective coursework may be taken a) to reach the minimum 30 hours required for the master's degree component of the program or b) to enhance the student's program (i.e., in addition to the 30 required hours).

After completing the required master's-level coursework, students enroll in either MAST 600 Master's Degree Candidacy or DOCT 600 Doctoral Candidacy while completing additional program requirements.

**Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Integrated Programs in Biomedical Sciences (IPIBS) Course Requirements:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOC/345</td>
<td>Biochemistry I (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>ASNB 610</td>
<td>Neuroscience Methods</td>
<td>2</td>
</tr>
<tr>
<td><strong>ASNB Course Requirements:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASNB 602</td>
<td>Fundamentals of Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 618 &amp; 618</td>
<td>Laboratory Rotation (must take at least two 3-credit lab rotations)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives**

Students must earn at least 9 additional credits by successfully completing any of the following Departmental core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNB 601</td>
<td>Gross Anatomy</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 605</td>
<td>Human Embryology</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 617</td>
<td>Seminar on Developmental Neurobiology</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 614</td>
<td>Molecular Neuroscience</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 666</td>
<td>Synaptic Organization of the Central Nervous System</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 671</td>
<td>General and Oral Histology</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 672</td>
<td>Survey of Dental Gross and Neuroanatomy</td>
<td>1</td>
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</table>

** DOCT 600 Doctoral Candidacy**

<table>
<thead>
<tr>
<th>Minimum Total Hours</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Offered on a rotational basis</td>
<td></td>
</tr>
<tr>
<td><strong>2</strong> Additional courses (electives) within ASNB or graduate level courses in other departments may be taken to achieve the minimum requirement of 30 credit hours or in addition to the minimum requirement. The student should consult with his/her advisor on the selection of the appropriate electives. A course in statistics is highly recommended.</td>
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</tr>
</tbody>
</table>

**Laboratory Rotations and Research Hours**

**Lab Rotations**

Each student will complete two rotations in different laboratories prior to the start of their third semester. Exceptions or the addition of a third rotation require approval from the ASNB Graduate Committee. The objectives of rotations in 2 labs are to expose the student to different approaches and areas of research and to assist the student in choosing a laboratory for dissertation research. For each rotation, the student will register for the 3 credit hour course Laboratory Rotation (ASNB 618) which is graded on a pass/fail basis. Once a student has completed a semester rotation in a given laboratory, an ASNB Rotation Report must be completed and submitted to the Graduate Program Director.

**Research Hours**

Once a mentor is chosen, research hours are taken as Original Research Hours.

**Advisory Committee**

The purpose of the advisory committee is to act as the primary guiding and assessment body for the student in a course of study and training through which they will acquire the knowledge and skills required to earn the degree of Doctor of Philosophy. The course of study and training will have components that are common for all students, but may have others that are tailored to the particular needs and/or desires of individual students.

The committee must have a minimum of five members. The Mentor (Principal Advisor) serves as chair. The majority of committee members must have a primary, joint or associate appointment in ASNB. At least one member must have a primary appointment in a department outside ASNB (this outside committee member must not have a joint appointment in ASNB) and can include a Graduate Faculty from another University. The student, in conjunction with the Mentor, should form a committee prior to the start of the second year. Once the committee is formed, the student will meet with the committee at least once per year. A Graduate Student Progress Report, completed by the Mentor, must be filed semi-annually (at the end of the fall and spring semesters) with the ASNB Graduate Program Director. Registration for courses is contingent on this filing.

**Qualifying Exam**

The purpose of the qualifying exam is to assure that the student has sufficient knowledge and skills to begin a research project. The exam will be taken within two terms (summer term included) after the successful completion of required coursework but no later than the Spring semester of Year 3.

Each member of the student’s Advisory Committee will prepare one question designed to assess the student’s ability to integrate course material, demonstrate critical thinking, and evaluate the literature related to the student’s area of interest. The student’s Mentor will submit all
the questions (minimum of five) to the Graduate Program Director. The ASNB Graduate Committee will review the questions and select three for distribution to the student. The student will have one week to complete two of the three questions (of their own choosing) and submit the answers electronically (pdf format) to the Graduate Program Director. The exam is "open-book" and must be written in the student's own words. The answers represent the student's unaided efforts and should NOT be edited or critiqued in any form by anyone other than the student, including the mentor, the student's committee, or other trainees in the program. The answer to each question should be no less than 10 pages and no more than 20 pages in length, double-spaced, not including references. The use of books and review articles is acceptable; however, a significant portion of the paper must be based on recent, primary sources in scientific journals.

The submitted answers will be evaluated by two members of the ASNB Graduate Committee plus one representative from the student's advisory committee, excluding the mentor. Each answer will be evaluated on a scale from 1 (poor) to 10 (outstanding) on mastery of basic background and conceptual material, familiarity with the literature in the field of study and critical thinking about the cited works and scientific question.

In order to pass the qualifying exam and continue in the PhD program, the student must:

1. Receive a minimum total score of at least 12 out of 20, and
2. Receive a score of at least 5 on each question.

A student who does not meet these passing requirements will have one chance for remediation. The remedial examination must be completed no later than 6 months after the student completed the original examination. The exam will again be comprised of answering two questions in the same format; the third question that had been submitted to the student by the ASNB Graduate Committee was not answered plus a new question. Failure after remediation will result in dismissal from the PhD program.

Upon successful completion of the exam, an evaluation form stating the outcome of the exam will be completed and signed by each committee member and will become a permanent part of the student's record. A passing grade indicates that the student has completed the requirements for an MS degree. At this point, the student becomes a doctoral candidate and must register for and maintain candidacy (DOCT 600) until the successful completion of his/her dissertation. This registration must be maintained year round (Fall, Spring, and Summer). The statute of limitation for obtaining a PhD degree at the University of Louisville is four years after passing the qualifying exam. University-wide official maximums for Fellowships and Graduate Assistantships are typically 6 years.

**Research Proposal**

The Research Proposal should be defended in the semester following successful completion of the Qualifying Exam but not later than the Fall semester of Year 4. Prior to writing the Research Proposal, the student will develop an outline of the proposed experiments in coordination with their Mentor and then present this outline to their committee. It is at this point, prior to writing the Research Proposal that the committee should recommend any changes in the research plan; for example, the number of experiments, reducing the difficulty of experiments, or introducing experiments that may be more appropriate for addressing the research question. Once the committee is satisfied with the proposed experiments, the student will write a Research Proposal in the following general format.*

- **Literature Review and Significance**: Section one will be an extensive literature review (similar to an expanded Background and Significance section of a National Institutes of Health grant proposal). This review should provide evidence that the student has a sufficient command of the background information relevant to the proposed research.
- **Specific Aims, Hypotheses, and Experiments**: This section will consist of a list of the proposed specific aims. Each Aim should include hypotheses to be tested and a brief description of the experiments that will be used to test these hypotheses.
- **Experimental Design and General Methods**: This section will consist of a detailed description of the experimental design as well as the methods that will be used to carry out the proposed experiments.
- **Expected Outcomes**: This section will describe the expected results and how they will be interpreted.
- **Potential Problems**: Upon completion of the research proposal, the student will distribute a copy to each committee member, who will have two weeks to read the proposal. Students must consider this two week reading period when preparing the document and scheduling the exam. The qualifying exam itself will be chaired by the student’s advisor. The exam will begin with an oral presentation, open to the public, in which the student will present an overview (approximately 40 min) of the research plan. The presentation will be followed by an oral defense to assess the student’s readiness to conduct the proposed research and their knowledge of background information relevant to the proposed research. Non-committee members in the audience will have an opportunity to ask questions first. The general audience will then be dismissed and the student will defend his/her proposal before the committee. Success or failure will be determined by majority vote of the committee. A student who fails the exam will have 2 months to retake the exam. Failure on the second attempt will result in dismissal from the program.

Upon successful completion of the exam, a Proposal Defense Evaluation Form stating the outcome of the exam will be completed and signed by each committee member and will become a permanent part of the student’s record.

* All eligible students are encouraged to submit (in coordination with their advisor) an application for a National Institutes of Health Predoctoral National Research Service Award (F31) or a National Science Foundation Predoctoral Award. Therefore, the Research Proposal may be submitted in the format of a relevant application with the exception that the background and significance section should be expanded to include a more extensive literature review than permitted by the NIH or NSF page limitations.

**Annual presentation of research progress**

PhD students who have completed their classwork (MS and PhD candidates) must present their research accomplishments annually. This presentation should be 30-50 minutes in length, and time and location of the presentation should be formally announced to the department faculty, staff and students at least one week prior to the planned presentation. Presentations at journal clubs are encouraged, but cannot be used as a substitute for the annual presentation requirement.
Teaching requirements
Each PhD candidate must serve as a teaching assistant (TA) in at least one ASNB core course. The specific course will be chosen, based on available TA slots, by the student and his/her advisory committee.

Dissertation Defense
With the exception of their training in teaching, the PhD candidate will focus exclusively on completing their research projects and writing a dissertation describing the results of their experiments. The candidate must complete all requirements for the degree of Doctor of Philosophy within four calendar years after passing the qualifying examination. It is expected that the dissertation should contain data sufficient for approximately three publishable manuscripts. Upon completion of a near final draft of their dissertation and prior to scheduling of their defense, the student must distribute a copy to each Dissertation Committee member. The committee will have two weeks to read a preliminary draft of the dissertation and give the approval to schedule a defense date or recommend major changes that need to be completed prior to scheduling a defense date.

Once the dissertation is approved to move forward by the committee, the student will schedule a Dissertation Defense and distribute an edited copy to each committee member. The School of Interdisciplinary and Graduate Studies requires that an announcement of the defense be made at least two weeks prior to the scheduled date. The defense will consist of a public oral presentation (approximately 45 minutes in length) of the research completed during the student’s graduate training. Non-committee members in the audience will be allowed to ask questions. The general audience will then be dismissed and the student will defend his/her dissertation before the committee. Upon completion, a written report stating the outcome of the defense will be completed by each committee member and will become a permanent part of the student’s record.

Approval by the majority of Dissertation Committee members will signify successful completion of the PhD degree.

Anthropology (MA)

Program Information
The Master of Arts (MA) in Anthropology at the University of Louisville is designed to enhance student knowledge of and skills in dealing with contemporary social issues facing a globalizing community and world from an anthropological perspective and to be able to locate these in the long progression of human history and within the body of social science theory. We expect our graduates to enter professions as skilled administrators, researchers, and leaders. Although students may focus heavily on evolutionary anthropology, archaeology, or cultural anthropology, this is a general, comprehensive masters program.

Anthropology is the queen of multidisciplinary work, and we see our students taking courses from and pursuing collaborations with colleagues in Humanities, Sociology, History, Women and Gender Studies, Pan-African Studies, Political Science, Art History, Biology, and the Kent School of Social Work. Students with little or no academic background in anthropology will be required to take some preparatory courses determined in consultation with the Anthropology Graduate Coordinator.

Admission Requirements
Applicants must complete/submit:

- Online graduate application for admission (http://graduate.louisville.edu/apply).
- A statement of interests covering relevant experience and aspirations. This letter is absolutely critical to your successful application, as it helps us assess where you might find common interests among Department faculty.
- GRE scores. Recommended: successful applicants report GRE scores averaging greater than the 50th percentile.
- Official transcripts. As stipulated by the School of Interdisciplinary and Graduate Studies, the minimum GPA for acceptance into the program is 3.0.
- Three letters of reference addressing the candidate’s readiness for graduate studies, academic abilities, and potential for success. One letter may be from an employer.
- Applicants may choose to submit a writing sample.

The Graduate Committee uses a holistic approach when evaluating graduate applications.

Program Requirements
The Master of Arts (MA) in Anthropology requires 30 credit hours at the graduate level. It comprises 24 credit hours of course work, plus 6 credit hours of thesis or internship. All students enrolled in the MA program are required to complete one of the following options:

In addition to the 9 credit hours of the 600-level core seminars, students take another 600-level course, 12 credit hours of topical electives at the 500 or 600 level, and 6 credit hours of thesis or internship hours.

Students may enroll in up to 9 credit hours in another department. Students may enroll in 500 level courses in another department with the permission of the Anthropology Director of Graduate Studies.

Courses taken at the 500 or 600 level as an undergraduate may be applied toward the MA in Anthropology on the condition that the student earned a grade of B or higher in the course and the course was taught at the graduate level. Graduate Coordinator approval is required.
Coursework earned as undergraduate and used to meet the requirements for the undergraduate degree may not be used for graduate credit.

### Thesis Option

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### Thesis Option Coursework

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<td>ANTH 612</td>
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<td>ANTH 609</td>
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<td>Archaeology as Practice</td>
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<td>Animals and Humans</td>
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<td>ANTH 529</td>
<td>Zooarchaeology</td>
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<td>Human Impacts on Past Environments</td>
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<td>ANTH 531</td>
<td>Anthropology of Water</td>
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<td>Nutritional Anthropology</td>
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<td>ANTH 540</td>
<td>Health and Civilization</td>
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<tr>
<td>ANTH 562</td>
<td>Special Topics in Cultural Anthropology</td>
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<td>ANTH 624</td>
<td>Black Cultural Traditions</td>
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<td>Globalization, Transnationalism, and Anthropology</td>
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<td>Food Justice</td>
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### Non-Thesis Option

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### Non-Thesis Option Coursework

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Art (Creative) and Art History (MA)

Master of Arts in Art (Creative) and Art History (ART MA)
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Department: Fine Arts (http://louisville.edu/art)
Program Webpage: louisville.edu/art/graduate

Program Information
Students may receive a Master of Arts degree in the Department of Fine Arts by completing 31 credit hours of graduate study divided between work in the Core Curriculum and work in one of the following three tracks of study: Art History, Critical and Curatorial Studies, or Studio Art.

Degree Summary

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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Accelerated BA/MA in Art History
Art History majors who are considering pursuing a master's degree (MA) in Art History can speed up the process by applying some of their undergraduate credit hours toward a master's degree. Students accepted into the Accelerated BA/MA program take three 500-level courses (9 credit hours) as an undergraduate that apply toward both the bachelor's degree and the eventual master's degree.

Interested students should apply to the program during Junior year (i.e., when they have accumulated 60-90 hours of credit). Students must have at least a 3.0 university grade point average when they apply and must maintain a 3.0 once accepted. Once admitted to the accelerated BA/MA program, students are expected to maintain a full graduate load of 9 credit hours.

Once accepted into the program, students complete 9 hours of 500-level coursework during their final year of undergraduate studies. They then graduate with a bachelor's degree and move straight into the UofL MA program. Students in the accelerated program must meet all of the requirements for the MA, including completing at least 12 credit hours of their 31-hour program in 600-level courses.

Admission Requirements
To be considered for admission to the MA program, students must submit the following credentials:

- Application to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply)
- Transcripts of all colleges attended (undergraduate or graduate)
- Two letters of recommendation specific to the program
- Graduate Record Examination (GRE) scores

Program Requirements

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<tr>
<th>Code</th>
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<td>Core Coursework</td>
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<td>ARTH 600</td>
<td>Graduate Seminar (or ART 600 / CCS 600 - first semester)</td>
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<td>ARTH 642</td>
<td>Theories &amp; Methods of Art History (to be taken in first semester)</td>
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<tr>
<td>Art History Elective (500 or 600 level)</td>
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<tr>
<td>Elective - Outside the Department of Fine Arts (500 or 600 level) (with approval of advisor)</td>
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<td>Fine Arts Elective (500 or 600 level) (outside the chosen Fine Arts Track)</td>
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<td>ARTH 645</td>
<td>Thesis Guidance (or ARTH 645; CCS 645)</td>
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Concentration Requirements
All students must complete one of the following 15-credit hour concentrations in addition to the 16-credit hour program core (see Degree Requirements tab).

Concentration in Art History
Students in this concentration are expected to demonstrate competence in the history of art, equivalent to an undergraduate major.

Reading knowledge of one foreign language is required for the completion of the Art History concentration. This requirement should be met during the first year in the program, but must be met before enrolling for Thesis Guidance (ARTH 645/ARTH 646). Proficiency can be demonstrated in one of two ways:

1. Taking an examination administered by the department, scheduled in the fall and spring semesters; or
2. Completing the intermediate level of the language at the University of Louisville with a grade of B or better.

<table>
<thead>
<tr>
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<th>Hours</th>
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<td>ARTH Pre 1750</td>
<td>3 credit hours, select one course from the following:</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 542</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>ARTH 651</td>
<td>Topics in Ancient Art</td>
<td></td>
</tr>
<tr>
<td>ARTH 552</td>
<td>Ancient Painting</td>
<td></td>
</tr>
<tr>
<td>ARTH 553</td>
<td>Ancient Cities</td>
<td></td>
</tr>
</tbody>
</table>
Concentration in Critical & Curatorial Studies

Students admitted to this concentration are expected to demonstrate competence in the history of art, studio art or arts management equivalent to an undergraduate major and an interest in museum theory and work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS 547/647</td>
<td>Introduction to Critical and Curatorial Studies I</td>
<td>3</td>
</tr>
<tr>
<td>CCS 648</td>
<td>Critical and Curatorial Studies II</td>
<td>3</td>
</tr>
<tr>
<td>CCS 649</td>
<td>Curatorial Internship</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 500 or 600 level</td>
<td>ARTH Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one of the following 600-level Public Administration courses:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 600</td>
<td>Foundations of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PADM 603</td>
<td>Policy Analysis and Program Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration in Studio Art

Students admitted to this concentration are expected to have completed training equivalent to an undergraduate major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studio Courses (500 or 600 level) to be selected in consultation with advisor</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Thesis Exhibition with Thesis Statement**

**Minimum Total Hours**

15

A minimum of 12 credit hours in the concentration, exclusive of Thesis Guidance, must be at the 600-level.

The concentration in Critical & Curatorial Studies will conclude with a thesis exhibition or curatorial project. The exhibition or curatorial project may be produced in cooperation with the university's galleries, the Speed Art Museum, or other appropriate institutions authorized by the department. It should be a culminating experience occurring in the final year of study.

To fulfill this requirement, the candidate must submit a prefatory project proposal with the approval of their graduate advisor, produce or implement the thesis practicum proposed, and appropriately document the exhibit or project. This documentation will include exhibition or project materials such as press releases, announcements, wall texts, brochures and/or catalog, and digital and/or photographic documentation of the exhibition or project as well as other corollary documentary materials. The thesis project will also include a written portion, in addition to the practicum and documentation, that will provide a narrative basis in critical theory and current professional curatorial practice detailing the planning, implementation, and documentation of the project. The written thesis will be submitted in conformity with the regulations governing the form and presentation of the written master’s thesis.

**Concentration in Studio Art**

Students admitted to this concentration are expected to have completed training equivalent to an undergraduate major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studio Courses (500 or 600 level) to be selected in consultation with advisor</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Thesis Exhibition with Thesis Statement**

**Minimum Total Hours**

15

A minimum of 12 credit hours in the concentration, exclusive of Thesis Guidance, must be at the 600-level.

The Concentration in Studio Art will conclude with a thesis exhibition. The thesis exhibition, which must be authorized by the department, should take place during the candidate’s last semester of study.

To accompany this exhibition, the candidate must submit a catalog containing a prefatory statement written by the candidate, a properly documented list of works in the exhibition, and photographic reproductions of the work in one of the following forms:

- Black and white photographs,
- Color photographs, or
- Slides placed in plastic sleeves to be bound into the thesis.

The catalog will be submitted in conformity with the regulations governing the form and presentation of the written master’s thesis.
Art Education (MAT)

Master of Arts in Teaching in Art Education (EDARMAT)

Unit: College of Education and Human Development (http://louisville.edu/education) (GE)
Department: Middle and Secondary Education (http://louisville.edu/education/departments/mise)
Program Webpage: louisville.edu/education/degrees/mat-ae

Program Information

This program leads to Kentucky certification in Art Education, grades P-12.

Applicants to the program should have excellent academic credentials as well as successful experience working with children and/or adolescents.

Applicants should also have an undergraduate degree with a major in Fine Arts.

Admission Requirements

Candidates considering application to the MAT program should contact the MAT admissions counselor (teacher@louisville.edu) prior to applying for admission. Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program:

1. Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Minimum test scores as required by Education Professional Standards Board.
   Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. Praxis II (http://louisville.edu/education/degrees/info/mat-mse-praxis-ii) Content Exam registration and/or scores.
4. Bachelor’s Degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with a major in Art or appropriate prerequisite courses.
5. Minimum undergraduate degree GPA 2.75 (official transcripts http://louisville.edu/education/degrees/info/transcripts) required.
6. "C" or higher in English 102 and oral communication course.
7. TOEFL (http://louisville.edu/education/degrees/info/toefl)
8. Professional Statement
10. Three Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)
11. Program Committee Acceptable Interview

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 602</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Mid-Point Assessment

Prior to Student Teaching: Satisfactory dispositions assessment; No lower than 2.0 in art education methods/research class; Within 3 credit hours of meeting content requirements; and ECPY 607, and EDTP 602 passed; Satisfactory mid-point teacher performance assessment (TPA); Positive recommendation from Middle/Secondary Program Committee. Electronic documentation of 200 hours of diverse and approved field experiences.

Certification Assessment

After Student Teaching: Satisfactory dispositions assessment; All coursework completed with 3.0 cumulative GPA; 2.5 cumulative GPA in Art content/prerequisite course requirements; 2.0 or higher in each student teaching; Satisfactory certification teacher performance assessment (TPA); Passing scores on required PRAXIS content and PLT exams; Positive recommendation from Middle/Secondary Program Committee.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 503</td>
<td>Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds</td>
<td>3</td>
</tr>
<tr>
<td>ART 5XX</td>
<td>Art Education Methods and Research I</td>
<td>3</td>
</tr>
<tr>
<td>ART 6XX</td>
<td>Art Education Methods and Research II</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 620</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Credit Hours 36

1 Must be taken concurrently with Student Teaching
2 Can be taken at any point in the program; at least one must be at the 600 level

Degree Assessment

Satisfactory dispositions assessment; All program coursework with 3.0 cumulative GPA (and no more than a total of two “C’s” in degree courses); Satisfactory degree teacher performance assessment (TPA).

Degree Candidacy

Students not enrolled during the semester in which they intend to graduate must register for master's candidacy as outlined in the Graduate Catalog "Academic Policies, Procedures, and Requirements", under the section called academic policies and requirements.

Praxis Disclaimer

Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at www.epsb.ky.gov (http://www.epsb.ky.gov) or www.ets.org/praxis (http://www.ets.org/praxis) for current requirements.

Art History (PhD)

Doctor of Philosophy in Art History (ARTHPHD)
The PhD Program in Art History is not currently accepting applications for admission.

The Doctor of Philosophy in Art History provides advanced expertise in art history and prepares graduates for university-level teaching, curator positions at major museums, and independent research in the field. Students in this program select in-depth courses from the following areas: Ancient, Medieval, Byzantine, Islamic, Renaissance, Baroque, Modern, and Contemporary western, as well as Asian and Non-western art and architecture.

Admission Requirements

The PhD Program in Art History is not currently accepting applications for admission.

Program Requirements

Coursework required for the PhD in Art History includes completion of the MA degree plus 15 credit hours ARTH 500-level electives, 15 credit hours of ARTH 600-level electives, 6 credit hours of Dissertation Research, and 6 credit hours of graduate level electives outside the Art History Program, for a total of 72 credit hours. Additional 600-level courses may be substituted for 500-level.

Up to a total of 15 credit hours of 500- or 600-level electives outside Art History may be substituted for Art History electives of similar level provided they are appropriate and are approved in advance by the student's advisor.

Coursework Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of the MA</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>ARTH 642</td>
<td>Theories &amp; Methods of Art History</td>
<td>15</td>
</tr>
<tr>
<td>ARTH 500-level electives</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ARTH 600-level electives</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ARTH 643</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ARTH 644</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>500 or 600-Level Electives Outside Art History</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ARTH 743</td>
<td>Directed Reading for Comprehensive Exams (Major)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 744</td>
<td>Directed Readings for Comprehensive Exams (Minor)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 745</td>
<td>Dissertation Research (12 max)</td>
<td>5</td>
</tr>
<tr>
<td>Dissertation prospectus</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Dissertation and defense</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>72</td>
</tr>
</tbody>
</table>

Students are expected to take any courses necessary in preparation for scholarly research.

Students are required to demonstrate facility in two foreign languages, one of which must be relevant to the field of dissertation research (for example, Latin or Greek for ancient art). Some areas of Art History require that students have a mastery of epigraphy and paleography. Students in any field in which extensive language study is necessary in order to conduct research must concentrate on the relevant language or languages before taking the comprehensive exam.

Language proficiency is demonstrated in one of two ways:

1. Taking a proficiency examination administered by the department, scheduled in the fall and spring semesters. The proficiency exam is a one-hour translation examination with the use of a dictionary. Students are required to demonstrate intermediate level facility in the language.
2. Completing the intermediate level of the language course at the University of Louisville with a grade of B or better.

Through coursework, independent study, and directed readings, each student must prepare her/himself to pass a written comprehensive exam before admission to candidacy. Language requirements must have been met and all course work completed before a student may take the comprehensive exam.

After being admitted to candidacy, the student must write a dissertation and defend it in a final oral examination.

- Minimum 30 credit hours of coursework at the 500 and 600 level (exclusive of coursework earned for the MA degree)
- ARTH 743 and ARTH 744
- ARTH 745
- Comprehensive exam (upon completion of coursework and before beginning the dissertation)
- Dissertation prospectus
- Dissertation and defense

Students must continue to enroll for credit each Fall and Spring, including any semesters after coursework has been completed and before graduation. After completing minimum course requirements for the program, doctoral students must maintain continuous registration until the completion of the degree. Once enrolled in Doctoral Candidacy, students must maintain enrollment year round (Fall, Spring, and Summer semesters) until the completion of the degree.

A minimum GPA of 3.5 must be maintained in the PhD program.

The Art History faculty periodically review PhD students who have not yet advanced to candidacy and will discourage from further work those students whose progress and performance are deemed unsatisfactory.

Asian Studies (CERT)

Graduate Certificate in Asian Studies (ASSTCAS)

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences) (GA)
Program Information

The Graduate Certificate in Asian Studies is a graduate-level interdisciplinary program housed in the College of Arts and Sciences. It allows students to learn more about the peoples of China, India, and Japan from the perspectives of art history, geography, history, religious studies, political science, sociology, and theatre arts. The fifteen credit hour program may be completed as a stand-alone program, or in conjunction with other graduate programs—for example, the MA in History or Political Science, or the PhD in Art History or Humanities.

Students take 15 credit hours in graduate courses with an Asian emphasis. At least three of the five required courses must be at the 600 level, and the five courses must be drawn from at least three of the following disciplines: Anthropology, Art History, Classical and Modern Languages, Geography, History, Humanities, Political Science, Sociology, Theatre Arts, or Women's and Gender Studies. A minimum of three (3) credit hours must be in the Division of Humanities (exclusive of language courses), and at least three (3) credit hours must be in the Division of Social Sciences.

To complete the Graduate Certificate, students also must demonstrate reading knowledge in one of the following: Chinese, Japanese, or another language designated as an Asian language by the Program Director.

With the approval of the Program Director, an internship in a community or local business may be substituted for three (3) credit hours of classwork. To be eligible for this substitution, the internship must involve work that is primarily connected with Asia or Asian-Americans in some way.

Admission Requirements

Interested students must have earned a baccalaureate or other undergraduate degree from an accredited college or university, and meet the criteria for admission to the School of Interdisciplinary and Graduate Studies at the University of Louisville (louisville.edu/graduate/apply).

Individuals wishing to pursue the graduate certificate in conjunction with a graduate degree program in another University of Louisville department should be admitted to that degree program before applying for admission to the Graduate Certificate Program in Asian Studies.

Program Requirements

Select five of the following (at least three of which must be at the 600 level)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH/AST 531</td>
<td>Studies in Asian Art</td>
<td>1</td>
</tr>
<tr>
<td>ARTH 631</td>
<td>Topics in Asian Art</td>
<td>1</td>
</tr>
<tr>
<td>AST 500</td>
<td>Topics in Asian Studies-Humanities</td>
<td>1</td>
</tr>
<tr>
<td>AST 501</td>
<td>Topics in Asian Studies-Social Sciences</td>
<td>1</td>
</tr>
<tr>
<td>AST/POLS 641</td>
<td>Clash of Civilizations in the 21st Century</td>
<td></td>
</tr>
<tr>
<td>HIST 561</td>
<td>U.S. and Vietnam - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST/WGST 584</td>
<td>Women in East Asian History</td>
<td></td>
</tr>
<tr>
<td>HIST 591</td>
<td>Civilizations of Ancient and Medieval India - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 592</td>
<td>Civilizations of Modern India - CUE, WR</td>
<td></td>
</tr>
<tr>
<td>HIST 598</td>
<td>Nationalism and Modernity in East Asia</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

\(^1\) May be repeated when topics vary.

Audiology (AuD)

Doctor of Audiology (AUDIAU)

Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department: Audiology (http://catalog.louisville.edu/graduate/programs-study/doctor-audiology/louisville.edu/medschool/audiology)
Program Webpage: louisville.edu/medschool/audiology/

Program Information

The Doctor of Audiology degree (AuD) is a four-year post-baccalaureate degree program leading to a professional degree conferred by the School of Interdisciplinary and Graduate Studies. The program is physically located within the Louisville Medical Center and administratively located in the Department of Otolaryngology-Head and Neck Surgery and Communicative Disorders in the University of Louisville School of Medicine. The faculty are committed to the clinical focus of the AuD degree and endeavor to bring real-world experiences to bear on the teaching environment. The faculty and staff of Audiology actively participate in the provision of clinical services in both hospital and private practice arenas.

Students benefit by working side by side with the faculty and staff in an active and dynamic medical environment. Students will be able to interact with faculty, residents and medical students from other disciplines such as Otolaryngology, speech pathology, and pediatrics, not only in the provision of clinical services but also in teaching and research endeavors.

Admission Requirements

Admission to the program will be for Fall term only, and applications must be received by January 1 of the application year.

Applicants should submit:

- All undergraduate transcripts
- GRE scores
- Three letters of recommendation
- A writing sample which can discuss your interest in the field of Audiology

Applicants must have a minimum GPA of 3.0 and minimum cumulative GRE score is required; average cumulative GRE scores for admitted students is 306 (as outlined by the Council of Academic Accreditation in Audiology and Speech Language Pathology). Admission to the program is based on a favorable review of application materials and an interview with the admissions committee. Applicants will be asked to demonstrate a knowledge of the field.

Please see the Doctor of Audiology Program website (http://louisville.edu/medicine/degrees/audiology) for more information.

Program Requirements

The Doctor of Audiology degree program has been designed to meet the content and experience guidelines developed over the past decade.
by numerous professional organizations and associations. Curricular content areas and competencies are outlined as follows.

The curriculum begins with the student spending a significant amount of time in the classroom with a minimum amount of time in the clinical environment. Over the course of the four years, the ratio of classroom to clinic time reverses, so that the last year consists of virtually full-time clinical environment. Over the course of the four years, the ratio of classroom to clinical experience. During the fourth year, students will be given options to choose from a variety of sites around the country.

### Typical 4-Year Curriculum

**Course**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Anatomy and Physiology of Hearing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Techniques in Audiology for Pediatrics and Adults</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Audiology Internship</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Investigation in Audiologic Practice</td>
<td>1</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>Clinical Clerkship I</td>
<td>1</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td>Doctoral Candidacy</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Clinical Clerkship II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Pediatric Audiology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hearing Science I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>Educational Audiology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Clinical Clerkship II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advanced Auditory Processing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Independent Study in Audiology</td>
<td>1-6</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td>Genetics and Hearing Loss</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Clinical Clerkship II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Professional Issues in Audiology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Investigation in Audiologic Practice</td>
<td>1</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td>Practice Management in Audiology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Audiology Internship</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Investigation in Audiologic Practice</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Prevention of Hearing Loss</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Pathology of the Auditory-Vestibular System</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Audiologic Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Audiology Internship</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Investigation in Audiologic Practice</td>
<td>1</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>Doctoral Candidacy</td>
<td>0</td>
</tr>
</tbody>
</table>

1. Full-time status

### Autism and Applied Behavior Analysis (CERT)

**Graduate Certificate in Autism and Applied Behavior Analysis (AABACAA)**

- **Unit:** College of Education and Human Development (http://louisville.edu/education) (GE)
- **Department:** Special Education (http://louisville.edu/education/departments/sped)
- **Program Webpage:** louisville.edu/education/degrees/bcba-certificate

### Program Information

*This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs)*.

The University of Louisville’s Graduate Certificate in Autism and Applied Behavior Analysis provides practitioners with advanced knowledge in autism research and behavioral analytic approaches to skill development and the treatment of challenging behavior.

Students receive rigorous academic work within the program’s carefully designed course sequence that is taught by faculty with practical and research experience in autism and applied behavior analysis.

Upon completion of the program’s approved courses, students with an approved masters degree must complete a 1,500 hour practicum to be eligible to sit for the Board Certified Behavior Analyst Certification Exam. For more information on certification, go to bacb.com (http://www.bacb.com).

Certification in applied behavior analysis demonstrates a level of competency in research-based principles for education and the treatment of challenging behavior.

The reported increase in the number of children with autism suggests growth in the availability of positions for behavior analysts and schools and the community.

### Admission Requirements

The Behavior Analyst Certification Board, Inc.® has approved UofL’s course sequence as meeting the coursework requirements for eligibility to take the Board Certified Behavior Analyst Examination®. Applicants will
have to meet additional requirements to qualify. For more information on
certification, go to www.bacb.com (http://www.bacb.com).

Admission to the program requires a graduate application to the
School of Interdisciplinary and Graduate Studies (http://louisville.edu/
graduate/apply).

Applicants must also have the following:

• A bachelor’s or master’s degree in Special Education, Psychology,
  Speech Language Pathology, Occupational Therapy or Social Work
  from an accredited institution.
• A 2.75 overall GPA in the bachelor’s degree and/or a 3.0 overall GPA in
  the master’s degree and any additional graduate work; and
• Official transcripts.
• Professional certificate/license in a field related to autism (e.g.,
  Special Education, Psychology, Speech Language Pathology,
  Occupational Therapy or Social Work), current employment working
  with individuals impacted by autism, or availability to complete 10
  hours of fieldwork per week throughout the duration of the program.
• Three letters of recommendation related to the applicant’s work with
  individuals with autism.
• Grade of B-minus or higher in required prerequisite courses within the
  past three years (EDSP 644 and EDSP 570).
• Submission of GRE scores.
• Test of English as a Foreign Language (TOEFL) required of all foreign
  students from countries in which English is not the native language.

NOTE: Those intending to seek certification as a Board Certified Behavior
Analyst (BCBA) must hold a master’s degree in Education, Psychology, or
Behavior Analysis

Program Requirements

Prerequisite Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 570</td>
<td>Autism: Introduction and Understanding</td>
<td>3</td>
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</tbody>
</table>

Both must have been taken within the past three years with a grade of B-
or higher.

Program Coursework

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>EDSP 671</td>
<td>Autism: Strategies and Techniques</td>
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<td>EDSP 669</td>
<td>Single Subject Research Methods and Designs</td>
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<td>EDSP 546</td>
<td>Behavior Analytic Approach to Communication</td>
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Midpoint Assessment

<table>
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<tr>
<th>Code</th>
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<tr>
<td>EDSP 650</td>
<td>Advanced Applied Behavior Analysis</td>
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<tr>
<td>EDSP 651</td>
<td>Professional and Ethical Practice of Applied Behavior Analysis</td>
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<tr>
<td>EDSP 673</td>
<td>Research Seminar in Autism Spectrum Disorders</td>
<td>3</td>
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</table>

Exit Requirements

Minimum Total Hours 18

Minimum of 15 hours in 600-level courses is required.
Transfer credits are not accepted to this certificate program.

All courses must be completed within four years of admission to the
program.

To complete the program, students must have a minimum of a 3.0
cumulative grade point average. No credit shall be accepted for carrying
a grade lower than B-minus.

Midpoint Assessment: Students who do not meet the midpoint
requirements may be exited from the program. A program faculty panel
will review individual cases and make a determination regarding the
student’s ability to remain in the program. Decisions of the program
faculty panel are final.

Exit Requirement: Completion of intervention project and presentation
with a rating of Satisfactory and grades of B- or higher in all certificate
courses.

Biochemistry and Molecular Genetics (MS)

Master of Science in Biochemistry and Molecular Genetics (BIOCMS)
Unit: School of Medicine (http://catalog.louisville.edu/graduate/
programs-study/master-science-biochemistry-molecular-biology/
louisville.edu/medschool) (GM)
Department: Biochemistry and Molecular Genetics (http://
catalog.louisville.edu/graduate/programs-study/master-science-
biochemistry-molecular-biology/louisville.edu/medschool/biochemistry)
Program Webpage: louisville.edu/medschool/biochemistry/

Program Information

The Master of Science in Biochemistry and Molecular Genetics program
is a two-to-three-year course of study designed for students interested in:

• A terminal master’s degree leading to jobs that do not require
  extensive research experience or credentials, e.g. pharmaceutical
  representatives, medical insurance providers, scientific writing;
• Preparation for professional school, e.g., medical or legal;
• Combined programs to form a hybrid or dual science/business or
  science/public health degrees, such as an MS/MBA or MS/MPH
  programs; and/or
• Gaining practical training in laboratory technique and analysis as the
  basis for a career in biotechnology or academic research.

As teachers and scientists, the faculty of the Department of Biochemistry
and Molecular Genetics subscribe to the following missions:
• Provide up-to-date and high-quality classroom and laboratory instruction in the discipline of biochemistry and molecular biology to students at the University.
• Conduct and publish research or other scholarship in areas that advance knowledge within the discipline, contribute to improving the human condition, and contribute to teaching.
• Train students and post-doctoral fellows in biochemical research.

Admission Requirements
All applications must be submitted online (louisville.edu/graduate/apply).

Only complete applications will be reviewed. A complete application must have all the following:
• Transcripts of all course work.
• The Graduate Record Examination (GRE) general test scores.
• At least two letters of recommendation, preferably from faculty in biology and/or chemistry.
• A personal statement of interest.

Selection Process
Applications will be reviewed by the Director of Graduate Studies and the Graduate Executive Committee of the Department. We use a holistic review process and use the GPA, GRE scores, and experience to select applicants we feel will be successful in our program.

Final decisions for admissions will be made in April-May of each year.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td><strong>Program Core</strong></td>
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<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
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<tr>
<td>BIOC 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 606</td>
<td>Biochemistry Seminar (1 credit)</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics (1 credit)</td>
<td>1</td>
</tr>
</tbody>
</table>

Students complete one of the following options: 16

**MS Thesis Option**
Electives (6 credits)
Ten (10) credits from the following:

BIOC 619 Research

BIOC 613 Biochemistry Laboratory

**MS Non-Thesis Option: Laboratory-Based**

BIOC 611 Advanced Techniques in Biochemistry and Molecular Biology

BIOC 613 Biochemistry Laboratory (12 credits)

**MS Non-Thesis Option: Course-Based**

Two from the following:

BIOC 680 Biomolecular Interactions

BIOC 675 Cancer Biology

BIOC 661 Molecular Mechanisms of Toxicology

Electives (inside or outside BIOC), 8+ credits

1 Laboratory work (BIOC 613) may be considered an elective to count towards the non-thesis, course-based degree option.

Thesis/Final Paper

**Thesis**
A MS research thesis is required for the thesis option. Students, with the consent of their committee, may choose between a traditional research thesis format or a thesis in which the methods and results sections are replaced by manuscripts ready for submission for publication in a refereed journal.

In either case, the thesis must conform to the School of Interdisciplinary and Graduate Studies’ Standards for Preparation of Theses and Dissertations (https://louisville.edu/graduate/current-students/thesis-dissertation-information).

**Paper**
A paper based on literature research or laboratory research (rotation research) is required for the non-thesis, lab option. The topic will be approved by the DGS and the paper evaluated by two faculty.

A paper based on literature research is required for the non-thesis, coursework option. The topic will be approved by the DGS and the paper evaluated by two faculty.

Schedule of Course Offerings

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>BIOC 645</td>
<td>Advanced Biochemistry I (Required)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOC 611</td>
<td>Advanced Techniques in Biochemistry and Molecular Biology (Elective)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics (Required)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOC 680</td>
<td>Biomolecular Interactions (Elective)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>BIOC 606</td>
<td>Biochemistry Seminar (Required)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>BIOC 603</td>
<td>Special Topics in Biochemistry (Elective)</td>
<td>1-4</td>
</tr>
<tr>
<td></td>
<td>BIOC 613</td>
<td>Biochemistry Laboratory (Required for lab-based option)</td>
<td>2-4</td>
</tr>
<tr>
<td></td>
<td>BIOC 619</td>
<td>Research (Required for thesis-based option)</td>
<td>1-9</td>
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<table>
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<tr>
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<table>
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<tr>
<td></td>
<td>BIOC 647</td>
<td>Advanced Biochemistry II (Required)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOC 667</td>
<td>Cell Biology (Elective)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOC 675</td>
<td>Cancer Biology (Elective)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOC 661</td>
<td>Molecular Mechanisms of Toxicology (Elective)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics (Required)</td>
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<tr>
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<td>BIOC 606</td>
<td>Biochemistry Seminar</td>
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<tr>
<td></td>
<td>BIOC 603</td>
<td>Special Topics in Biochemistry (Elective)</td>
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</tr>
<tr>
<td></td>
<td>BIOC 603</td>
<td>Special Topics in Biochemistry (Elective)</td>
<td>1-4</td>
</tr>
<tr>
<td></td>
<td>BIOC 613</td>
<td>Biochemistry Laboratory (Required for lab-based option)</td>
<td>2-4</td>
</tr>
<tr>
<td></td>
<td>BIOC 619</td>
<td>Research (Required for thesis-based option)</td>
<td>1-9</td>
</tr>
</tbody>
</table>

| Hours | 21 |

Minimum Total Hours 30

Biochemistry and Molecular Genetics (PhD)

Doctor of Philosophy in Biochemistry and Molecular Genetics (BIOPHD)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Program Information

As teachers and scientists, the faculty of the Department of Biochemistry and Molecular Genetics subscribe to the following missions:

- Provide up-to-date and high-quality classroom and laboratory instruction in the discipline of biochemistry, molecular biology, and genetics to students at the University.
- Conduct and publish research or other scholarship in areas that advance knowledge within the discipline, contribute to improving the human condition.
- Train students and post-doctoral fellows in biochemical research.

Admission Requirements

Criteria and Mechanism for Selection

All applications must be submitted using the online application (http://louisville.edu/graduate/apply) form.

Doctoral students are admitted for Fall term only. Be sure to select Fall term for start date and BIOC for the program. Review of applications begins in December of each year and applications are reviewed on a rolling basis through March.

Criteria

The Biochemistry and Molecular Genetics department uses a holistic approach for reviewing applications and selecting candidates for interview. The applicant’s academic record, research experience, and letters of recommendation are closely evaluated. Competitive candidates have a strong background in biochemistry, chemistry, or biology with evidence of rigorous coursework. The GRE test is required and the scores are considered as part of academic profile. There is no requirement for a minimum GRE score. In addition, 1-2 page personal statement describing past educational, laboratory and relevant life experiences, as well as outlining professional goals after the degree program is required.

Competitive applicants have:

- A minimum undergraduate (and graduate) overall grade point average of 3.0 (4.0 system) with an average of 3.0 in science courses.
- Previous research experience
- Strong letters of recommendation

Selection

The Biochemistry and Molecular Genetics department Graduate Executive Committee (GEC) reviews applications on a rolling basis. Top candidates will be invited to interview with GEC by skype or in person. Select candidates will be invited to a recruitment weekend in February to visit the department and meet the faculty and students. Select candidates are nominated for Integrated Programs in Biomedical Sciences (IPIBS) Fellowship awards for qualified applicants. The department will notify applicants by email of their decision. All applicants who are accepted into the program must respond with their decision no later than April 15th. In the absence of a response, after April 15th the position in the program and financial support is no longer guaranteed and may be offered to another applicant. The Biochemistry and Molecular Genetics department accepts 4-6 students per year into the program. All students accepted into the Biochemistry and Molecular Genetics department PhD graduate program enter the IPIBS program (louisville.edu/medicine/ipibs/about).

All students accepted into the Biochemistry and Molecular Genetics department PhD graduate program enter The Integrated Programs in Biomedical Sciences (IPIBS) program (louisville.edu/medicine/ipibs/about).

Requirements for the PhD Degree in Biochemistry and Molecular Genetics

During PhD training students receive considerable guidance from their mentor, committee, and faculty members of the department. However, students need to recognize that individuals who pursue a biomedical graduate degree are expected to take full responsibility for their own scientific and professional development and to seek out and utilize all available resources for that goal.

Annual progress reports to document that a student is in good standing within the Biochemistry and Molecular Genetics department graduate program are required. The criteria for good standing in the graduate program are based on successful completion of milestones that indicate progression towards a degree. These milestones are the successful completion of:

1. All coursework with a minimum GPA of 3.0.
2. A minimum of two laboratory rotations.
3. Serve as a teaching assistant for one semester.
4. Two seminar presentations.
5. Exam 1 (PhD qualifying exam).
6. Exam 2a and 2b (approved research proposal and committee meeting).
7. Annual research conferences with committee meetings in years three and beyond.

To fulfill all requirements for the PhD degree a student must

2. Publish at minimum one first author manuscript.
3. Write and defend a doctoral dissertation that is acceptable by the dissertation committee and School of Interdisciplinary Graduate Studies.

Student Support

An IPIBS Fellowship will provide stipend support for the first 23 months. Support after the first 23 months is the responsibility of the individual student’s dissertation advisor. Students are also encouraged to seek extramural support.

Guidance for the Student

The Director of the Biochemistry and Molecular Genetics Graduate Program will serve as the first year advisor to all incoming graduate students until a dissertation advisor (mentor) is selected. During the first year, all students will meet with all available faculty to discuss research projects and complete a minimum of two laboratory rotations to help select a lab and mentor. After completion of lab rotations and before beginning the second year, the student will select a mentor, subject to the approval of the Graduate Executive Committee and the department chair.
QE Revision
All required coursework must be completed by the end of year two. Upon successful completion of all coursework the student moves into MS candidacy and is eligible for the PhD Qualifying Exam (QE). The purpose of the PhD Qualifying exam (Exam I) is to evaluate the student’s ability to interpret literature, develop a research plan, integrate material from the graduate curriculum, display core knowledge of biochemical principles, and orally defend his/her ideas. The format of the QE requires the student to write and orally defend a NIH-style fellowship proposal on a topic different from their own research, followed by a chalk-talk oral exam covering general biochemical/genetic principles covered in the curriculum. Upon successful completion of the QE, the student will be awarded a MS degree and move into doctoral candidacy. Within six months of passing the QE, a dissertation committee must be formed and approved by GEC and the department chair, and a committee meeting held to provide guidance on the student’s research (Exam IIa). A full research proposal must be completed and approved by the committee in Spring term of year three (Exam IIb).

Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>Required Courses</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
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<tr>
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<tr>
<td></td>
<td>Advanced Techniques in Biochemistry and Molecular Biology</td>
<td>4</td>
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<tr>
<td>BIOC 611</td>
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<tr>
<td></td>
<td>Biochemistry Laboratory</td>
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<tr>
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<td><strong>Spring</strong></td>
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<td>Required Courses</td>
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</tr>
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<td>BIOC 647</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Cell Biology</td>
<td>3</td>
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<tr>
<td>BIOC 667</td>
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<td></td>
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<td></td>
<td>Responsible Conduct of Research: Survival Skills and</td>
<td>1</td>
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<tr>
<td></td>
<td>Research Ethics</td>
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<td>BIOC 603</td>
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<td><strong>Year 2</strong></td>
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<td><strong>Fall</strong></td>
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<td>Required Courses</td>
<td>Molecular Biology and Genetics</td>
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<td></td>
<td>Biomolecular Interactions</td>
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<td>BIOC 680</td>
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<td>Scientific Method and Grant Writing</td>
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<td>Molecular Mechanisms of Toxicology</td>
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Summer Required Courses

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Years 3-5 Required Courses

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<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td>0</td>
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</tbody>
</table>

Minimum Total Hours 45-56

Bioengineering (MEng)

Master of Engineering in Bioengineering (BE MEN)
Unit: Speed School of Engineering (http://louisville.edu/speed) (SP)
Department/Program Webpage: louisville.edu/speed/bioengineering/

Program Information

General Information
The Bachelor of Science in Bioengineering degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Bioengineering degree. The Master of Engineering in Bioengineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Bioengineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Bioengineering bachelor degree program at Speed School. Students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

Major of Engineering Program Educational Objectives
Embodying the University, Speed School of Engineering and Department of Bioengineering missions of providing an excellent education through research, innovation and a rigorous curriculum, the Department of Bioengineering Master of Engineering degree program will produce graduates who:

1. Demonstrate advanced level academic expertise and practical engineering experience necessary to function as bioengineering professionals in a modern, ever-changing world. (Advanced Knowledge and Life-long Learning)
2. Display competence by being selected for employment by industrial, academic or government entities or further professional/graduate studies. (Career Opportunities)
3. Understand the broad, social, ethical and professional issues of contemporary engineering practice. (Awareness and Responsibility)

Master of Engineering Student Outcomes
In order to achieve these objectives, the Master of Engineering has the following outcomes set for its graduates.

Graduates will demonstrate:

1. An ability to apply Mathematics, Life Sciences, Physical Sciences, and Engineering to advanced bioengineering problems
2. An ability in proficiently designing and validating experiments, systems, components, or processes to meet desired needs
3. An ability for proficiently identifying, formulating, and solving advanced bioengineering problems
4. An ability for proficient contemporary technical and scientific comprehension and lifelong learning
5. An ability for proficient technical and scientific communication
6. An ability to use advanced techniques, skills, and modern engineering tools necessary for bioengineering practice

Residency
All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for MEng residency until the degree is awarded (i.e., the candidate must maintain continuous registration, including summer terms, in Graduate Studies). Failure to pay the MEng residency fee will be cause to cancel a student's residency. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. In order to be restored to residency, the student must submit a new application, have the recommendation of the department chair, receive the approval of the Associate Dean and pay the fee for each of the semesters during which the residency was void.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.
2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and 7 credit hours for summer terms.

Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and 7 credit hours for summer terms. Any student who remains on academic probation for two consecutive terms may be considered for dismissal from the program.

3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.
5. A maximum of eight (8) hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

Degree Requirements
The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements.

Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Master's degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master's degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.
4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.
5. The MEng degree cannot be conferred prior to the BS degree.

Admission Standards
Since the Bioengineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Bioengineering bachelor degree program at Speed School.

The application form is available online at http://louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication/

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post-conferral of their baccalaureate degree;
2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;
3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.

A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

Program Requirements
The Master of Engineering in Bioengineering degree requires the following over and above the Bachelor of Science in Bioengineering Degree

Required Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 621</td>
<td>Bioinstrumentation</td>
<td>4</td>
</tr>
<tr>
<td>BE 654</td>
<td>Advanced Physiology for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>IE 563</td>
<td>Experimental Design in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BE Electives 1,2</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
The Master of Engineering (MEng) degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the Master of Engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.

A maximum of eight (8) credit hours of graduate-level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

1 Electives must be chosen so that at least one-half of the total credits counted toward the degree, exclusive of thesis, are 600-level
2 BE Electives - A minimum of nine (9) credit hours and maximum of fifteen (15) credit hours of electives must be chosen from the approved list (see list below; all prerequisites must be satisfied)
3 The Technical Electives must be chosen from the following approved list. All prerequisites must be satisfied. Please note that all BE Electives can be counted toward Technical Electives. Only three (3) credit hours from EM and six (6) credit hours from BIOC, CHEM or MATH may be used towards degree requirements
4 For the thesis option, a student is required to select both an approved MEng thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in BE 697.

### Technical Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 500</td>
<td>Special Topics in Bioengineering</td>
<td>3</td>
</tr>
<tr>
<td>BE 551</td>
<td>Gene and Drug Delivery</td>
<td>3</td>
</tr>
<tr>
<td>BE 552</td>
<td>Introduction to Tissue Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BE 600</td>
<td>Advanced Topics in Bioengineering</td>
<td>3</td>
</tr>
<tr>
<td>BE 605</td>
<td>Tissue &amp; Molecular Biology Techniques Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BE 611</td>
<td>Cardiovascular Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>BE 630</td>
<td>Biomechanical Computer Modeling and Simulation of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>BE 639</td>
<td>Injury Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>BE 640</td>
<td>Computational Methods for Medical Image Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BE 650</td>
<td>Advanced Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BE 658</td>
<td>Rehabilitation Engineering and Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td>BE 680</td>
<td>Bio-Micro</td>
<td>3</td>
</tr>
<tr>
<td>BE 681</td>
<td>Biomedical Microfluidics</td>
<td>3</td>
</tr>
<tr>
<td>BE 683</td>
<td>Artificial Organs</td>
<td>3</td>
</tr>
<tr>
<td>BE 685</td>
<td>Modeling of Biological Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>BE 693</td>
<td>Independent Study in Bioengineering</td>
<td>1-6</td>
</tr>
<tr>
<td>BE 695</td>
<td>Bioengineering Research Design &amp; Methods</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 653</td>
<td>Advanced Chronic Disease Biology</td>
<td>4</td>
</tr>
<tr>
<td>CECS 535</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>CECS 619</td>
<td>Design and Analysis of Computer Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CECS 628</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 632</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>CECS 641</td>
<td>Medical Imaging Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 660</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 520</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>CEE 521</td>
<td>Digital Signal Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CEE 530</td>
<td>Introduction to Random Processes and Estimation Theory</td>
<td>3</td>
</tr>
<tr>
<td>CEE 533</td>
<td>Integrated Circuit Design</td>
<td>3</td>
</tr>
</tbody>
</table>
ECE 543 Fundamentals of Microfabrication and MEMS 3
ECE 544 Microfabrications/MEMS Laboratory 1
ECE 620 Pattern Recognition and Machine Intelligence 3
ECE 641 Medical Imaging Systems 3
ECE 643 Introduction to Biomedical Computing 3
ECE 655 Pattern Recognition and Machine Intelligence Laboratory 1
ECE 675 Nanostructure Self-Assembly 3
EM 525 Project Management 3
EM 613 Operations Management 3
EM 628 Engineering Management 3
EM 661 Engineering Statistics II 3
IE 580 Introduction to Human Factors Engineering and Ergonomics 3
IE 581 Advanced Topics in Human Factors Engineering 3
IE 631 Advanced Quality Control 3
MATH 501 Introduction to Analysis I - CUE 3
MATH 502 Introduction to Analysis II 3
ME 512 Finite Element Methods for Mechanical Design I 3
ME 555 Introduction to Micro and Nanotechnology 3
ME 565 Advanced Engineering Mathematics I 3
ME 606 Continuum Mechanics 3
ME 612 Finite Element Methods for Mechanical Design II 3
ME 638 Computational Methods in Fluid Flow and Heat Transfer 3
ME 644 Mechatronics 3
ME 650 Biofluid Mechanics 3
ME 651 Kinematics and Kinetics of Human Movement 3

Biology (MS)

Master of Science in Biology (BiolMS)
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences) (GA)
Department: Biology (http://louisville.edu/biology)
Program Webpage: louisville.edu/biology/graduate

Program Information

The degree program is available to qualified individuals possessing a bachelor's degree from an accredited college or university. A biology undergraduate major is preferred. However, other majors containing sufficient biology, chemistry and math may be acceptable. The Department of Biology offers master's degrees with programs of study tailored to the needs and interests of a diverse student population. Students may enroll on a full or part-time basis. The Department of Biology offers both thesis and non-thesis options. The thesis option is generally chosen by students with career goals which include a research emphasis. Students choosing this option take coursework and carry out an intensive independent research project under the supervision of a member of the Graduate Faculty, culminating in a written thesis based upon the research project. The non-thesis option is usually chosen by those who wish to advance their knowledge of biology but are not sure of a specific career goal or do not anticipate a research emphasis in their future.

Accelerated BA-BS/MS in Biology

Students who wish to pursue an accelerated non-thesis master’s degree in Biology (BA-BS/MS) will be allowed to apply up to nine (9) hours of coursework taken for graduate credit while enrolled as an undergraduate. An additional twenty-four (24) hours of graduate coursework will constitute the minimum number of credit hours for obtaining the non-thesis masters in the accelerated program.

Admission Requirements

Program admission requirements and application requirements can be viewed on the Department of Biology website at louisville.edu/biology. Questions can be addressed to or further information obtained from the Director of Graduate Studies, Dr. Perri K. Eason, at (502) 852-5936 or pkeaso01@louisville.edu.

The following requirements/standards apply to applicants to the MS program in the Department of Biology:

1. The applicant must have a baccalaureate degree with a major in Biology or an acceptable sub-discipline, with an undergraduate GPA of 3.0 or higher.
2. While there is no minimum requirement for GRE scores, competitive students usually have scores around the 50th percentile or better on the general GRE test (verbal + quantitative). MCAT or DAT test scores at similar percentiles are also acceptable.
3. For foreign students, a TOEFL score of 83 on the internet-based exam or at least 6.5 on the IELTS exam is required (students holding a baccalaureate or advanced degree from an accredited institution in the United States or other English-speaking country are exempt from this requirement).

Deadline for Completed Applications

- July 1 for Fall admission
- December 1 for Spring admission.

Application Materials

Applications will be complete when the following materials have been received (final action on applications will not be taken until complete):

Send to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
University of Louisville
Louisville, KY 40292

- A completed application form and fee
- One official transcript of all previous undergraduate and graduate coursework
- Official GRE, MCAT or DAT exam scores
- Two or more letters of recommendation from persons familiar with your academic performance and capabilities
- Official TOEFL or IELTS scores if required.

Send to:

Director of Graduate Studies, Department of Biology
• A completed Department Application Form

Available at louisville.edu/biology/graduate/graduate-program-application-information (this form is submitted electronically when completed).

Program Requirements

MS in Biology and Accelerated BA-BS/MS in Biology

Thesis option students are required to complete a minimum of 30 hours; non-thesis option students must complete a minimum of 33.

A minimum of 12 (thesis option) or 17 (non-thesis option) semester hours, exclusive of thesis credit, must be in courses at the 600 level. Students intending to seek a PhD degree later are advised to take as many of their courses as possible at the 600 level or above.

Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 650</td>
<td>Advanced Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12-14</td>
</tr>
<tr>
<td>Thesis Research (600 level)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 650</td>
<td>Advanced Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>13-17</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

---

1 Courses to be selected by student's committee: one course from each of two (thesis option) or three (non-thesis option) Background Coursework categories.

Program Information

A broad range of courses are taught in most biological disciplines, although the department is focused in two major directions. Faculty in the Divisions of Molecular, Cellular, and Developmental Biology (MCD) and Evolution, Ecology and Behavioral Biology (EEB) have research interests in environmental microbiology, population and microbial genetics, developmental biology, plant and animal physiology, metabolism, plant and animal ecology, behavioral ecology, invertebrate zoology, and community and ecosystem ecology.

Students seeking the PhD Degree in Biology traditionally have a master's degree or its equivalent; however, students may enter the program with only the baccalaureate degree. Generally, the first year or two is spent in coursework, research is begun by the second year, and the thesis/dissertation completed in the final year.

Graduate Assistantships and Other Financial Support

Graduate Teaching Assistantships (GTA) are awarded by the Graduate Committee of the Department of Biology to meet the instructional needs of the Department and enhance and broaden the educational experience of doctoral students. All newly admitted students are automatically considered for this type of annual support, which includes a monthly stipend, tuition remission, and health insurance.

Financial support may also be available from individual faculty members who have research funding that supports graduate students as Graduate Research Assistants (GRA). The faculty members holding this support select students to fill these positions.

A small number of the most highly qualified accepted applicants will be nominated by the Department for University Fellowship awards, which carry a monthly stipend, tuition remission, and health insurance benefits. These students must meet qualifications set by the School of Interdisciplinary and Graduate Studies.

Admission Requirements

The following requirements must be met in order to be admitted to the PhD program in the Department of Biology:

1. The applicant must have a baccalaureate degree with a major in biology or an acceptable sub-discipline of biology.

2. The applicant must meet the following admissions standards:
   - Undergraduate GPA of 3.0 or higher
   - While there is no minimum requirement for GRE scores, competitive students usually have scores around the 50th percentile or better on the general GRE test (verbal + quantitative)
   - For foreign students, a TOEFL score of 83 on the internet-based exam or at least 6.5 on the IELTS exam (students holding a baccalaureate or advanced degree from an accredited institution in the United States are exempt from this requirement).

3. All applicants must review the research specialties of the departmental faculty to ensure that an area compatible with the student’s interest is available. Applicants for the PhD program must communicate with a member of the biology faculty prior to admission and receive agreement that the faculty member will serve as the major professor. No formal admission to the program can occur without the preliminary acceptance of a mentor. Faculty contact information is available at louisville.edu/biology/.

Biology (PhD)

Doctor of Philosophy in Biology (BIOLPHD)

Unit: College of Arts and Sciences (http://catalog.louisville.edu/graduate/programs-study/doctor-philosophy-biology/louisville.edu/artsandsciences) (GA)

Department: Biology (http://catalog.louisville.edu/graduate/programs-study/doctor-philosophy-biology/louisville.edu/biology)

Program Webpage: louisville.edu/biology/graduate
Your application will be complete when we have all of the following (final action on an application cannot be taken until all items have been received):

Send to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, University of Louisville, Louisville, KY 40292:

- Completed application form and application fee;
- One official transcript of all previous undergraduate and graduate coursework;
- Official GRE, MCAT or DAT scores;
- Two or more letters of recommendation from persons familiar with your academic performance; and
- Official TOEFL or IELTS scores (international students).

Send to the Director of Graduate Studies, Department of Biology:

- Completed Biology Department Application Form, found at louisville.edu/biology/graduate/graduate-program-application-information (this is an electronic form sent when completed).

Deadline for completed applications:

- July 15 for Fall admission
- December 1 for Spring admission.

For full consideration for financial support, applications should be completed by January 15 for Fall admission.

Degree Requirements for the PhD in Biology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 600</td>
<td>Graduate Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 601</td>
<td>Graduate Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>One course to be selected by the student’s committee from each category:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biostatistics</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Evolutionary Biology</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Focus Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two courses from within an Area of Focus:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ecology, Evolution and Behavioral (EEB) Biology Focus Area:

- Population and Community Ecology
- Ecosystem Ecology or Behavioral Ecology

Molecular, Cellular and Developmental (MCD) Biology Focus Area:

- Genetics/Cellular
- Physiology

Advanced Biology Electives | 16
BIOL 700 | Dissertation Research | 7

Minimum Total Hours | 41

1 Courses that cover the evolutionary history and/or phlogenetic relationships of molecules or organisms
2 Courses that discuss the biochemistry and molecular genetics of life or describe the cell as the structural and functional unit of life
3 Courses that discuss life processes at the level of the organism

Biostatistics (CERT)

Graduate Certificate in Biostatistics (BDSCCBS)
Unit: School of Public Health and Information Science (http://louisville.edu/sphis) (GH)
Department: Bioinformatics and Biostatistics (http://louisville.edu/sphis/departments/bioinformatics-biostatistics) Website: louisville.edu/sphis/departments/bioinformatics-biostatistics/academics/certificate

Program Information
The Department of Biostatistics offers a 15-credit hour certificate to deliver core biostatistics instruction to a wide spectrum of the industrial workforce. This program provides an ideal path for students and professionals seeking to enhance their data analytic and decision-making skills. In addition, individuals who are interested in the possibility of entering the MS program in Biostatistics can use this program as a stepping stone to the master’s degree.

Competencies
The core competencies of the Certificate in Biostatistics program include knowledge of basic Biostatistical methods, basic knowledge of data management and statistical computing and a preliminary exposure to research design.

- Analyze moderately complex research data using statistical methods involving common linear statistical models. [C4]*
- Manage data and conduct elementary statistical computing using SAS software. [C3]*
- Critique/design basic methods for moderately complex research problems [C6]*

Demonstration of the competencies is accomplished by successful completion of all certificate curriculum activities.

* Bracketed codes represent cognitive domain levels from Bloom’s Taxonomy

Faculty Advisor
On matriculation, each student is assigned a faculty advisor and is requested to meet at least once a semester (face-to-face or using a video conferencing tool) with his or her advisor. The faculty advisor works with the student to develop a program of study and serves as academic mentor and counselor on career and employment opportunities, professional development, and opportunities beyond the certificate.

Admission Requirements

- Graduate application (http://louisville.edu/graduate/apply) submitted to the School of Interdisciplinary and Graduate Studies
- Bachelor’s degree or its equivalent in basic sciences, economics, psychology, or in a closely related discipline from an accredited institution. The curriculum must contain a statistics or biostatistics course at the sophomore level or higher and at least two courses in basic sciences.
- Preferred minimum GPA is 2.75 on a 4.0 scale. Applicants with lower GPAs will be considered on a case-by-case basis.
- At least two letters of recommendation written within past twelve months, submitted as part of the application.
- Non-refundable application fee.
uniV e r s i t y o f
louisville

• Postsecondary transcripts. Transcripts from institutions outside of the United States may require a foreign credential evaluation.
• Proficiency in English language is a requirement and a key to the success in the program.

Information contact:
Dr. K.B. Kulasekera
kb.kulasekera@louisville.edu
(502)852-1827

Curriculum
The curriculum calls for completing 15 credit hours using courses listed below.

Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHST 680</td>
<td>Biostatistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>PHST 681</td>
<td>Biostatistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>PHST 620</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHST 640</td>
<td>Statistical Methods for Research Design in Health Sciences ¹</td>
<td>3</td>
</tr>
<tr>
<td>PHST 684</td>
<td>Categorical Data Analysis ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

¹ Course requires the completion of the sequence PHST 680 - PHST 681, as a prerequisite.

Biostatistics (MS)

Master of Science in Biostatistics (BDSCMS)
Unit: School of Public Health and Information Sciences (https://louisville.edu/sphis) (GH) (https://louisville.edu/sphis)
Department: Bioinformatics and Biostatistics (http://louisville.edu/sphis/departments/bioinformatics-biostatistics)
Program Webpage: louisville.edu/sphis/departments/bioinformatics-biostatistics/academics/ms

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-science-in-biostatistics).

Biostatistics involves the development and application of statistical techniques to scientific research in health-related fields including medicine, nursing, and public health. Students in the Master of Science in Biostatistics program receive state-of-the-art training in the latest statistical methodologies with focus on the design of research studies, modern statistical data analysis in health sciences research, and research in Biostatistical methodology. In addition, students are provided with tools with which to develop evidence-based clinical and healthcare policies and guidelines.

Competency
Evaluate the biostatistics content of scientific and biomedical journal articles. C6
Analyze moderately complex research data using statistical methods involving common linear statistical models. C4
Manage data using spreadsheet and database software. C3
Demonstrate use of standard statistical and graphics computer packages, including SAS, R, Microsoft Excel, and SPSS. C3
Evaluate new statistical methods presented in the literature. C6
Investigate the history, theoretic underpinnings, current applications, and active areas of inquiry of biostatistics. C4
Apply principles and theorems of advanced biostatistical operations. C3

Superscript codes represent cognitive domain levels from Bloom’s Taxonomy.

Demonstration of the competencies is accomplished by successful completion of all MS curriculum activities.

Faculty Advisor
Upon admission to the MS program, the program director serves as the student’s faculty advisor until a mentor for the student’s independent study, practicum or thesis (as applicable) is identified. At this milestone, the mentor becomes the student’s faculty advisor.

Program of Study
Upon admission to the MS program, the program director, working with the student as faculty advisor, develops a program of study for the student, which requires agreement by the student and the academic dean. Changes to a student’s program of study, including coursework, milestones, and their anticipated timings, are made by the student’s faculty advisor, working with the student, and formally signed by the student, the faculty advisor, the program director, and, for selected changes, the academic dean. This flexibility allows adapting programs of study to differing student capabilities and interests.

Admission Requirements
The MS program is available to students who have completed an undergraduate degree in biostatistics, statistics, mathematics, or a related discipline and possess competency in college-level calculus, linear algebra, and statistics as evidenced by transcripts from postsecondary institutions attended.

The following are required for admission:

• Graduate application (http://louisville.edu/graduate/apply) submitted to the School of Interdisciplinary and Graduate Studies.
• Non-refundable application fee.
• At least two letters of recommendation written within past twelve months, submitted as part of the graduate application (http://louisville.edu/graduate/apply)
• GRE Scores are required and are considered in the context of other required components of the application. Students who have been successful in our programs in the past had a median [Q1, Q3] GRE Quantitative score at the 80th percentile.
• All postsecondary transcripts. Transcripts from institutions outside of the U.S.A. require a foreign credential evaluation.
• The minimum undergraduate grade point average that will be considered for unconditional acceptance and admission is 3.0
on a 4.0 scale. Applicants with a GPA of 2.75 or above may be considered for conditional admission based on the overall quality of the application. Contingencies placed on admission for such cases may vary by the student.

- A statement of purpose submitted to the department office, which must include desired degree program.
- International students for whom English is not their primary language must show English language proficiency by one of the following:
  - TOEFL examination score at or above 550 (paper based test and a 5.0 on the TWE test), 213 (computer based test), 79 (internet based test)
  - IELTS test score of 6.5 or higher
  - Successfully passing the exit examination for the advanced level of an Intensive English as a Second Language Program
  - Demonstration of a degree awarded from an institution with instruction primarily in English, as formally documented by an appropriate institutional official

**Program Requirements**

The MS program in biostatistics can be completed on one of three tracks/concentrations. The descriptions below are for students who have completed all prerequisite courses for required and elective courses included in each degree program.

- **The Standard Track** is a 30-credit hour, non-thesis curriculum that emphasizes a broad understanding of biostatistics and can be completed in three semesters by full-time students.
- **The Bioinformatics Track** is a 30-credit hour, non-thesis curriculum that is based on coursework in bioinformatics and biostatistics and can also be completed in three semesters by full-time students.
- **The Thesis Track** is a 36-hour curriculum that involves continuing beyond the required coursework for the Standard Track. Students pursue the preparation and defense of a master's thesis in an additional semester, during which the student enrolls for a thesis research course for no fewer than 6 credit hours.

The Thesis Track is generally recommended for students intending to pursue a PhD degree or wanting to pursue a research project that interests them. However, a master's thesis is a requirement for the Thesis Track only. A student who elects to pursue a thesis on the Thesis Track and subsequently does not successfully complete the thesis remains eligible for the award of degree under the Standard Track.

**Coursework Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Coursework</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Concentration Coursework</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Thesis (optional)</td>
<td></td>
<td>0-6</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30-36</td>
</tr>
</tbody>
</table>

Additional credit hours may be needed for remediation of missing or lacking student capabilities encountered following matriculation or for capabilities outside the standard coursework required for an identified project or thesis. For a detailed description of the degree requirements and course listing for each track, click on the "Concentration Requirements" tab.

**Concentration Coursework**

The course tables below list all required courses for each track, including the Program Core courses listed under the Degree Requirements tab.

**Standard Track Curriculum**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHST 661</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>PHST 680</td>
<td>Biostatistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 523</td>
<td>Public Health in the United States 1</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHST 662</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHST 681</td>
<td>Biostatistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Minimum Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

1 PHPH 523 fulfills the accreditation requirement that all graduates from the School of Public Health and Information Science receive foundational instruction in public health. The two (2) credit hours for PHPH 523 do not accrue toward the 30 credit hours required for MS degree completion. Students with a prior degree and/or coursework in a public health field or substantial experience in the public health workforce may be relieved of this requirement, per approval of the Associate Dean for Academic Affairs.
PHST 662 Mathematical Statistics 3
PHST 681 Biostatistical Methods II 3
PHST 684 Categorical Data Analysis 3
PHST 625 Clinical Trials II 2

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
<td>Title</td>
</tr>
<tr>
<td>PHST 683 Survival Analysis 3</td>
<td></td>
</tr>
<tr>
<td>Various Electives 2 8</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td>11</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

1. PHPH 523 fulfills the accreditation requirement that all graduates from the School of Public Health and Information Science receive foundational instruction in public health. The two (2) credit hours for PHPH 523 do not accrue toward the 30 credit hours required for MS degree completion. Students with a prior degree and/or coursework in a public health field or substantial experience in the public health workforce may be relieved of this requirement, per approval of the Associate Dean for Academic Affairs.

2. Electives are chosen with the approval of a faculty advisor. Students are typically encouraged to select electives from among the following courses offered by the Department of Bioinformatics and Biostatistics:

### Bioinformatics Track Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHST 603</td>
<td>Biostatistics Public Health Practicum I</td>
<td>1-2</td>
</tr>
<tr>
<td>PHST 620</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHST 640</td>
<td>Statistical Methods for Research Design in Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHST 675</td>
<td>Independent Study in Biostatistics</td>
<td>1-3</td>
</tr>
<tr>
<td>PHST 682</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Subject to the approval of a faculty advisor, students are also welcome to choose elective courses outside of the department in fields related to biostatistics, such as Mathematics, Epidemiology, and Computer Science. Students seeking to pursue elective coursework outside the department are responsible for ensuring they have met the prerequisites for these courses.

## Thesis Track Curriculum

The curriculum for the Thesis Track of the MS degree consists of additional thesis hours beyond the completion of the curriculum for the Standard Track. Students must declare to enroll in the Thesis Track at the competition of the spring semester of the first year for full-time students (the completion of at least 19 credit hours for part time students). Only after completion of the required 30 credit hours of coursework in the Standard Track curriculum, students electing to be in the Thesis Track enroll for a minimum of 6 credit hours of thesis research (PHST 666) in the spring semester of the second year, and typically write and defend a thesis by the end of that semester.

### Course Title Hours

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
<td>Title</td>
</tr>
<tr>
<td>PHST 666</td>
<td>Master’s Thesis Research 1</td>
</tr>
<tr>
<td>Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Total Hours 6

1. Students wishing to maintain full-time status may register for more than 6 credit hours of thesis or additional coursework.
Thesis

A student may apply to pursue preparation and defense of a master's thesis following completion of the required coursework. Pursuing an optional thesis requires permission of the program director. The thesis topic is approved by the major professor and thesis committee, chaired by the major professor. The student identifies a desired mentor to become his or her major professor, who is recommended by the program director and appointed by the academic dean. The major professor (or at least one when there are co-major professors) must be from the Department of Bioinformatics and Biostatistics. Following appointment, the major professor becomes the student's faculty advisor. Procedures for the thesis are given below.

Thesis Committee

Working with the major professor, the student identifies at least two or more desired committee members. Including the major professor, at least two members of the committee must be faculty in the Department of Bioinformatics and Biostatistics and at least one member must be from outside the department. The committee members are then recommended by the program director and appointed by the academic dean.

Thesis Preparation

The thesis is prepared in format according to the guidelines (http://louisville.edu/graduate/current-students/thesis-dissertation-information) established by the School of Interdisciplinary and Graduate Studies. It is the responsibility of each student to ensure that the readability and quality of writing in his/her thesis meets professional standards. Students are strongly encouraged to take advantage of the services offered by the University Writing Center (http://louisville.edu/writingcenter) when writing their theses. The services offered by the Writing Center are free to the student.

Thesis Approval

Final approval of the thesis is voted upon by the thesis committee after an oral defense of the thesis by the student. Students submit their theses to members of their committee two or more weeks prior to the date of the oral defense. Approval of the thesis is by majority vote of the committee after the oral defense.

Students are required by the School of Interdisciplinary and Graduate Studies to provide two weeks' notice when scheduling oral defenses (louisville.edu/graduate/forms/request-to-schedule-thesis-dissertation-final-oral-examination). This requirement permits those wanting to attend the oral defense adequate time to make arrangements for attending. Students must follow the below procedure for scheduling oral defenses:

1. Identify a date and time for the oral defense in consultation with the thesis advisor and members of the committee.
2. Request a room reservation for the oral defense through the Department's Administrative Assistant.
3. Notify the Department's Administrative Assistant of the date, time, and location of the oral defense as well as the title of the thesis. The Department's Administrative Assistant will circulate an announcement of the defense as well as notify the SPHIS Office of Student Services of the defense, who in turn notify School of Interdisciplinary and Graduate Studies.
4. Distribute technically and grammatically error-free copies of the thesis to all committee members at least two weeks prior to the defense date.

There are no exceptions to these requirements and students will not be permitted by the Department to schedule defenses with less than 2 weeks' notice. Students are expected to be aware of university deadlines for theses (louisville.edu/graduate/current-students/thesis-dissertation-information) and to ensure that the 2 weeks' notice requirement is fulfilled within these university deadlines. Students are strongly encouraged to allow for even greater than two weeks' notice to ensure that all deadlines and requirements are fulfilled.

Thesis Submission

The following steps must be taken to submit the final copy of the thesis electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies and the department's administrative assistant.
2. Submit as advised by the School of Interdisciplinary and Graduate Studies through the ThinkIR repository. The directions on submission will be provided upon review of the thesis by the School of Interdisciplinary and Graduate Studies.
3. The signature page within the electronic version must have the names of the committee members typed under the signature line; the signatures cannot be scanned into the document.
4. Submit a signed signature page on white paper, with original signatures, to the School of Interdisciplinary and Graduate Studies.

An electronic copy of the thesis must be provided to the Department’s Administrative Assistant.

Biostatistics (PhD)

Doctor of Philosophy in Biostatistics (BDSCPPhDDBIO)
Unit: School of Public Health and Information Sciences (https://louisville.edu/sphis) (GH)
Department: Bioinformatics and Biostatistics (http://louisville.edu/sphis/departments/bioinformatics-biostatistics)
Program Webpage: louisville.edu/sphis/departments/bioinformatics-biostatistics/academics/phd

Program Information

Introduction

Biostatistics involves the development and application of statistical techniques to scientific research in health-related fields, including medicine, epidemiology, and public health. Students in the PhD program receive state-of-the-art training in the latest statistical methodology in order to tackle the challenges associated with the study design and data analysis of modern research conducted in the health sciences. The PhD program provides advanced training in biostatistical theory and methods, with the goal of enabling the student to carry out original research. In addition, students may elect to train with an emphasis in bioinformatics.

Bioinformatics requires the development and application of statistical methods for many of the areas covered by the field, including genomics, proteomics, statistical genetics, and metabolomics. Current biomedical research technologies generate high volumes of data that require extension of existing statistical methodologies and development of new methodologies in order to extract important information regarding biological processes. The emphasis on bioinformatics is designed to fulfill the expanding need for biostatisticians with advanced training in this area. Students in the bioinformatics emphasis gain a basic understanding of molecular and cellular biology, genetics, and
bioinformatics and an in-depth knowledge of statistical theory and methods. Graduates are able to carry out original statistical research in genomics, proteomics, metabolomics, and evolving areas of systems biology.

Students who complete the MS program in biostatistics with the Department of Bioinformatics and Biostatistics or who already possess the equivalent of an MS in statistics, biostatistics, or a related discipline may apply for admission to the PhD program.

**Competencies**

To graduate, a student must be able to demonstrate mastery of the following competencies:

<table>
<thead>
<tr>
<th>Competency</th>
<th>CE</th>
<th>SCP</th>
<th>Dsrt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read, interpret, and critically review the biostatistics content of scientific and biomedical journal articles</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analyze moderately complex research data using statistical methods involving common linear statistical models</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Analyze dichotomous, count, and time-to-event data using appropriate statistical methods, including logistic regression, log-linear models, Kaplan-Meier curves, and Cox proportional hazards models</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Assist researchers in planning research studies, proposing and evaluating statistical methods and computing power analyses</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Write statistical methods sections for grant proposals, clinical trial protocols, and journal articles</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Manage data using spreadsheet and database software</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use standard statistical and graphics computer packages including SAS, R, and SPSS</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Keep abreast of statistical methods literature to evaluate and utilize new statistical methods</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Thoroughly understand the broad discipline of biostatistics, including its theoretic underpinnings, its history of development, current applications, and areas of active inquiry</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Understand advanced biostatistical operations</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conduct independent research</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advance the field of biostatistics through original research</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students who elected to emphasize on bioinformatics must demonstrate the following additional competencies, many of which represent specialization of competencies cited above:
**Competency**

<table>
<thead>
<tr>
<th>Competency</th>
<th>CE</th>
<th>SCP</th>
<th>Dsrt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyze high-throughput, biological data, such as microarrays, SNP chips, and mass spectrometer data, and understand the special statistical considerations that such data require</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Retrieve and leverage various types of biological information from online repositories</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Understand the basic biological principles that underlie our biological knowledge, and how the various forms of high-throughput data are used to address specific biological questions and expand our knowledge</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Advance the field of statistics in bioinformatics through original research</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

*Key for demonstration (method):*
- CE = Comprehensive examinations
- SCP = Statistical consulting practicum
- Dsrt = Dissertation

**Curriculum**

The curriculum consists of a minimum of 34 credit hours of coursework and a doctoral dissertation. The student is eligible to sit for comprehensive examinations upon completion of required coursework. Upon passing the comprehensive examinations and completing required and elective coursework, the student enters candidacy to work on the dissertation. After the dissertation is submitted and approved, including an oral defense, the student is eligible to receive the PhD degree in Biostatistics.

Award of a degree from an accredited school of public health requires successful completion of the equivalent of three (3) semester-credit hours in each of:

- Instruction that introduces the students to the breadth of public health
- Instruction in epidemiology

Either or both of these requirements may be determined to have been met prior to matriculation by approval of the academic dean of a variance request submitted by the program director. The request for a variance in one or both requirements must be justified by one of: previous degrees received, such as an MPH or DrPH; previous coursework successfully completed; or extensive experience in the public health workforce. In the absence of a variance for a requirement, the student's program of study must include successfully completed coursework that satisfies the requirement. This coursework may be included in the program's required coursework; if not, the student must complete appropriate coursework on a co-curricular basis.

**Faculty Advisor**

Upon admission to the PhD program, each student is assigned to the graduate coordinator of the PhD program for course advising. The graduate coordinator assumes the role of faculty advisor until the student chooses a dissertation advisor at which point this responsibility shifts to the dissertation advisor. If it becomes clear that a PhD student will be working with a given faculty member prior to forming a dissertation committee, the student may request a change in course advisor by completing the form **Request to Change Academic Advisor**.

**Program of Study**

Upon admission to the PhD program, a program of study is developed for each student by the faculty advisor and approved by the program director and department chair. Students who did not complete the MS program in biostatistics with the Department of Bioinformatics and Biostatistics may be required to complete additional coursework normally offered in the MS program. Decisions regarding additional coursework are made by the student's assigned faculty advisor and such courses become part of the program of study. This approach gives maximum flexibility for addressing differing student qualifications and interests.

**Application Requirements**

The PhD program is available to students who are entering from the MS program or to students entering with a master's degree in biostatistics, statistics, decision science, or a related discipline.

The following are additionally required for admission:
- Graduate application (http://louisville.edu/graduate/apply)
- Non-refundable application fee
- At least two letters of recommendation written within past twelve months, which may be submitted with the Graduate application (http://louisville.edu/graduate/apply)
- GRE Scores are required and are considered in the context of other required components of the application. Students who have been successful in our programs in the past typically have a median [Q1, Q3] GRE Quantitative score at the 87th percentile.
- All postsecondary transcripts (may require foreign credential evaluation if not from an accredited U.S. institution)
- Statement of goals, including the desired emphasis, if any.
- International students for whom English is not their primary language must show English language proficiency by one of the following:
TOEFL examination score at or above 550 (paper based test and a 5.0 on the TWE test), 213 (computer based test), 79 (internet based test)
IELTS test score of 6.5 or higher
Successfully passing the exit examination for the advanced level of an Intensive English as a Second Language Program
Demonstration of a degree awarded from an institution with instruction primarily in English, as formally documented by an appropriate institutional official

Program Requirements
Completion of the required coursework is the prelude to sitting for the comprehensive examination. Successful completion of the comprehensive examination allows the student to enter doctoral candidacy. A doctoral candidate must then develop and successfully defend a dissertation proposal that describes an original and independent research project. Upon successful defense of the proposal, a student may then proceed to continue dissertation research. Upon successful completion of the research, defense of the dissertation, and demonstration of the required competencies listed below, a student is awarded the PhD degree.

Coursework
34 total credit hours
12 credit hours of required core coursework
22 credit hours of elective courses (vary based on area of emphasis)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHST 691</td>
<td>Bayesian Inference and Decision</td>
<td>3</td>
</tr>
<tr>
<td>PHST 710</td>
<td>Advanced Statistical Computing I</td>
<td>3</td>
</tr>
<tr>
<td>PHST 762</td>
<td>Advanced Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>PHST 781</td>
<td>Advanced Linear Models</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Coursework (22 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHST 703</td>
<td>Biostatistical Consulting Practicum</td>
<td>1</td>
</tr>
<tr>
<td>PHST 724</td>
<td>Advanced Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>PHST 780</td>
<td>Advanced Nonparametrics</td>
<td>3</td>
</tr>
<tr>
<td>PHST 782</td>
<td>Generalized Linear Models</td>
<td>3</td>
</tr>
<tr>
<td>PHST 783</td>
<td>Advanced Survival Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional Electives (see list below)</td>
<td>9</td>
</tr>
</tbody>
</table>

Bioinformatics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHST 703</td>
<td>Biostatistical Consulting Practicum</td>
<td>1</td>
</tr>
<tr>
<td>PHST 750</td>
<td>Statistics for Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>PHST 751</td>
<td>High-throughout Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHST 752</td>
<td>Statistical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 660</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 545</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional Electives (see list below)</td>
<td>6</td>
</tr>
</tbody>
</table>

The student may be required to take one or more prerequisite courses for an elective course if the student does not meet the prerequisites. These prerequisite courses become part of the program of study but are in addition to the number of coursework credit hours presented above. Enrollment in other courses such as PHPH 701 may be required to maintain academic status for funding purposes.

Sample Program of Study Year 1 No Emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>PHST 710</td>
<td>Advanced Statistical Computing I</td>
<td>3</td>
</tr>
<tr>
<td>PHST 762</td>
<td>Advanced Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>PHST 781</td>
<td>Advanced Linear Models</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>PHST 691</td>
<td>Bayesian Inference and Decision</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>PHST 724</td>
<td>Advanced Clinical Trials</td>
<td></td>
</tr>
<tr>
<td>PHST 780</td>
<td>Advanced Nonparametrics</td>
<td></td>
</tr>
<tr>
<td>PHST 782</td>
<td>Generalized Linear Models</td>
<td></td>
</tr>
<tr>
<td>PHST 783</td>
<td>Advanced Survival Analysis</td>
<td></td>
</tr>
</tbody>
</table>
However, questions from any sources may appear that cover the same topics as listed in the syllabi of PHST 691, PHST 710, PHST 762, and PHST 781. Further, problems on the Computing section of the exam may draw on topics covered in PHST 691, PHST 762, and PHST 781. Each student receives a grade of either "pass" or "fail" for the entire comprehensive examination and each student must pass all four sections of the comprehensive examination to receive a "pass". Students that pass the exam will be eligible to enter doctoral candidacy upon completion of the remaining, second-year coursework. A failing grade indicates a deficiency in one or more areas, and a student with a grade of "fail" will have one opportunity to retake the full Comprehensive Examination (all four sections), typically in the following January. The results from a student's first attempt at the comprehensive exam will not be considered in the grading of the second attempt and will not factor into the determination of a pass or fail score for the second attempt at the exam. Students that fail to pass the examination on their second attempt will be dismissed from the program without any further consideration.

Neither scores nor graded copies of completed examinations will be shared with students. Students may review ungraded copies of their own completed comprehensive exams with the exam graders. The ungraded, completed copies will be held in the department office. Students will not be permitted to keep ungraded copies of the completed comprehensive exams.

**Special Notes on the Comprehensive Exam**

- For all the exams, the students will not have access to any course books, notes or any other materials (paper or electronic copies)
- Students will write programs and run code in the Bayesian and non-Bayesian computing examinations of the second day. These examinations will be given either in a computer lab in the SPHIS building or the students will be required to bring their own laptop to run the programs.
- The only materials which can be consulted for the second-day examination are R help menus locally available on the specific computer. Students will be asked ahead of time to upload all R packages needed to appear for the exam. Students will not be allowed to avail the internet by any means.
- Any suspected cheating on the Comprehensive Examination will be addressed according to university policies provided in Section 5 of Dean of Students document, Students Rights and Responsibilities (https://louisville.edu/dos/students/studentsrightsandresponsibilities). Additionally, students found guilty of academic dishonesty on the Comprehensive Examination will be expelled from the PhD program immediately.
- More than one faculty members will grade all the examinations.

**Dissertation**

In order to complete the degree, a candidate must submit and successfully defend a dissertation on a topic approved by his or her major professor and the dissertation committee. Dissertation work may be started following successful completion of doctoral comprehensive examinations.

**Dissertation Committee**

The dissertation committee is formed by the candidate's proposing a major professor (or principal advisor) and at least four other committee members. One member of the dissertation committee must be external.
to the Department of Bioinformatics and Biostatistics. The committee is appointed by the dean of the school upon the recommendation of the program director and chair of the department.

**Dissertation Proposal (Pre-Dissertation Essay)**

A dissertation proposal or pre-dissertation essay is submitted to the major professor and the dissertation committee. The proposal must be approved by a majority vote of the dissertation committee before the candidate undertakes further work on the dissertation.

The dissertation proposal is a typed document not exceeding 25 pages in length excluding topics (5) to (8), below. The following formatting is used: Times New Roman 12-point font, margins of 1 inch on all sides and 1.5-line spacing throughout the body of the document. The School of Interdisciplinary and Graduate Studies dissertation guidelines for citing references must be followed. The document is divided into the following sections and in the following sequence:

1. Introduction and Literature Reviews - general introduction to the area of proposed research and relevant literature reviews
2. Specific Aims and Significance - short section describing the specific aims of the proposed research and their potential importance in the field
3. Preliminary Results - summary of the research findings the student already has (e.g., simulation results) towards one or more of the specific aims. This is an important component of the proposal that demonstrates the feasibility of the proposed research by the student.
4. Research Plan - detailed description of the research towards the specific aims to be undertaken during the rest of the doctoral study period
5. References - complete references to all the cited literature. Journal names should not be abbreviated
6. Tables - including table headings
7. Figures - one figure per page
8. Appendix - copies (in PDF format) of published articles and preprints that are most relevant to the proposed research

**Dissertation Preparation**

The dissertation is to be prepared in format according to the guidelines established by the School of Interdisciplinary and Graduate Studies. These guidelines are located at louisville.edu/graduate/current-students/thesis-dissertation-information. It is the responsibility of each student to ensure that the readability and quality of writing in his/her thesis meets professional standards. Students are strongly encouraged to take advantage of the services offered by the University Writing Center (http://louisville.edu/writingcenter) when writing their theses. The services offered by the Writing Center are free to the student.

**Dissertation Approval**

Final approval of the dissertation is voted upon by the dissertation committee after an oral defense of the dissertation by the student. Students submit their dissertations to members of their committee two or more weeks prior to the date of the oral defense. Approval of the dissertation is by a majority vote of the committee after the oral defense.

Students are required by the School of Interdisciplinary and Graduate Studies to provide two weeks’ notice when scheduling oral defenses (louisville.edu/graduate/forms/request-to-schedule-thesis-dissertation-final-oral-examination). This requirement permits those wanting to attend the oral defense adequate time to make arrangements for attending. Students must follow the below procedure for scheduling oral defenses:

1. Identify a date and time for the oral defense in consultation with the dissertation advisor and members of the committee.
2. Request a room reservation for the oral defense through the Department's Administrative Assistant.
3. Notify the Department's Administrative Assistant of the date, time, and location of the oral defense as well as the title of the dissertation. The Department's Administrative Assistant will circulate an announcement of the defense as well as notify the SPHIS Office of Student Services of the defense, who in turn will notify the School of Interdisciplinary and Graduate Studies.
4. Distribute technically and grammatically error-free copies of the dissertation to all committee members at least two weeks prior to the defense date.

There are no exceptions to these requirements and students will not be permitted by the Department to schedule defenses with less than 2 weeks’ notice. Students are expected to be aware of university deadlines for dissertations (louisville.edu/graduate/current-students/thesis-dissertation-information) and to ensure that the 2 weeks’ notice requirement is fulfilled within these university deadlines. Students are strongly encouraged to allow for even greater than two weeks’ notice to ensure that all deadlines and requirements are fulfilled.

**Dissertation Submission**

The following steps must be taken to submit the final copy of the dissertation electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies and the department's administrative assistant.
2. Submit as advised by the School of Interdisciplinary and Graduate Studies through the ThinkIR repository. The directions on submission will be provided upon review of the dissertation by the School of Interdisciplinary and Graduate Studies.
3. The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.
4. Submit a signed signature page on white paper, with original signatures, to the School of Interdisciplinary and Graduate Studies, attention Courtney Kerr.

An electronic copy of the dissertation must be provided to the Department’s Administrative Assistant.

**Applying for a Degree**

Students are responsible for completing an “Application for Degree” form at the beginning of the semester in which they will defend their thesis or dissertation. Students may apply for their degree via ULink. The steps are as follows:

1. Log on to your ULink account.
2. Go to Student Services Page.
3. Scroll down and on the right of the screen you will find a column labeled “Registration”.
4. Under Registration click on the Degree Application link.
5. Follow the Prompts to complete your application for degree. Once completed, you will receive an e-mail confirmation of submission in your University e-mail.

Future deadline dates can be found on the Graduate Academic calendar (http://louisville.edu/calendars/academic/undergrad-grad).

For any questions or concerns students might have during the semester in which they plan to graduate, students’ best resource is the School of Interdisciplinary and Graduate Studies. The Department of Bioinformatics and Biostatistics faculty and staff are also here to advise and assist you with any questions you might have.

Business Administration (MBA)

Master of Business Administration (BA_MBA)

Unit: College of Business (http://business.louisville.edu) (GB)
Department: Business (http://business.louisville.edu/uoflmba)
Program Webpage: business.louisville.edu/uoflmba

Program Information

The College of Business Master of Business Administration at the University of Louisville is offered in multiple formats:

- Full-time MBA
- Professional (Part-time) MBA
- Integrative (Entrepreneurship) MBA
- Executive MBA
- Global MBA

Admission to MBA programs is highly competitive. All Master of Business Administration programs require completion of an undergraduate degree. GMAT scores and letters of reference requirements vary by program.

All programs are cohort-based vary in duration between 13 and 20 months, and in credit hour requirements between 42 and 48.

Admission Requirements

Applicants are more than their paperwork—which is why qualified candidates are invited for in-person interviews after all materials are received. Below is a checklist intended to help with the admissions process. It is recommended that your application be submitted within 30 days of creating your account, thereby providing you sufficient time to focus on the Graduate Management Admission Test (GMAT).

Contact the University of Louisville MBA Office with any questions via telephone (502) 852-7257 or email mba@louisville.edu.

Application Checklist

- Create application account
  - Visit UofLMBA.com (http://business.louisville.edu/uoflmba) and click "APPLY NOW."

- Two letters of recommendation
  - Within the application, submit names and email addresses of your recommenders. They will receive an email invitation on your behalf. Your recommenders should speak to your character, academic aptitude, etc.

- Professional resume

- Personal statement
  - Within the application, attach a 1-2 page Word document describing your interest in the UofL MBA program, why you selected the University of Louisville, your short and long term goals and any additional information you feel is relevant.

- Submit and pay application fee

- Official college transcript(s)
  - Order an official college transcript from all colleges attended, including the degree granting institution.

  Mail transcripts to:
  College of Business, MBA Office
  University of Louisville
  Louisville, KY 40292
  E-Transcripts will be accepted from the institution only. Have these sent to mba@louisville.edu.

- Graduate Management Admission Test (GMAT)
  - The admissions application includes a field in which you can provide your GMAT test date and/or scores. If you have not scheduled the GMAT, please visit www.mba.com (https://www.mba.com/us) for details. Once registered, notify the University of Louisville MBA office by sending an email to mba@louisville.edu with Subject Line: GMAT Test Date.
  - We recommend allocating 6-8 weeks of preparatory time and encourage you to attend the Free GMAT workshops offered monthly at the College of Business.
  - Note: We will accept the GRE in lieu of the GMAT.

International Applicants

We welcome all international applicants. Please be aware that there are documents required from international applicants that are in addition to the above list.

Visit business.louisville.edu/graduate-programs/grad-admissions/ and open the International Applicant Checklist

Full-time Master of Business Administration

The Full-time MBA is a 13-month cohort based program with two tracks: an internship track (48 credit hours); and a non-internship track (45 credit hours).

The program fee is $32,000. Application requirements include an undergraduate degree (with official university transcripts), a GMAT or GRE test result, two letters of reference, an interview, and a $50 application fee. Dual degree students in the University of Louisville School Law, Dentistry, or Medicine may be provided with a GMAT or GRE waiver.

Program Webpage: business.louisville.edu/uoflmba/
### Professional (Part-time) Master of Business Administration

The Part-time MBA is a 20-month cohort based 45 credit hour program. The program is delivered in two formats: a weekday evening format and a weekend format.

The program fee is $32,000. Application requirements include an undergraduate degree (with official university transcripts), a GMAT or GRE test result, two letters of reference, an interview, and a $50 application fee. Dual degree students in the University of Louisville School Law, Dentistry, or Medicine may be provided with a GMAT or GRE waiver.

Program Webpage: business.louisville.edu/uoflmba/

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 601</td>
<td>Strategic Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 602</td>
<td>Decision Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 604</td>
<td>Economics I</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 607</td>
<td>Economics II</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 609</td>
<td>Financial Accounting</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 611</td>
<td>Managerial Accounting I</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 612</td>
<td>Finance I</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 613</td>
<td>Managerial Accounting II</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 616</td>
<td>Finance II</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 618</td>
<td>Finance III</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 603</td>
<td>Organizational Behavior</td>
<td>1.5</td>
</tr>
<tr>
<td>MBA 608</td>
<td>Technology Management</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### Integrative (Entrepreneurship) Master of Business Administration

The Integrative (Entrepreneurship) MBA is a part-time program that is 20 months long. It is a cohort based, 45-credit hour program.

The program fee is $32,000. Application requirements include an undergraduate degree (with official university transcripts), a GMAT or GRE test result, two letters of reference, an interview, and a $50 application fee. Dual degree students in the University of Louisville School Law, Dentistry, or Medicine may be provided with a GMAT or GRE waiver.

Program Webpage: business.louisville.edu/uoflmba/

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMBA 615</td>
<td>Opportunity Discovery</td>
<td>1.5</td>
</tr>
<tr>
<td>IMBA 612</td>
<td>Economics of Strategy</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 611</td>
<td>Accounting</td>
<td>1.5</td>
</tr>
<tr>
<td>IMBA 613</td>
<td>Finance</td>
<td>1.5</td>
</tr>
<tr>
<td>IMBA 621</td>
<td>Lean Launchpad I</td>
<td>1.5</td>
</tr>
<tr>
<td>IMBA 622</td>
<td>Venture Strategic Analysis</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Sequence of courses are subject to change.

1. Spread multiple semesters
Executive Master of Business Administration

The Executive MBA is a 20-month, cohort-based, 46-credit hour program. It is a joint degree delivered in conjunction with the University of Kentucky. One-half of the courses are physically taught at each of the University of Louisville and the University of Kentucky. The program fee is $67,500. Application requirements include an undergraduate degree (with official university transcripts), two letters of reference, an employer letter of support (required due to program scheduling), an interview, and a $100 application fee.

Program Webpage: business.louisville.edu/uoflmba/

Global Master of Business Administration

The Global MBA is a 14-month, cohort-based, 42-credit hour program. The first semester consists of a one-month residency at the University of Louisville. Students study during the fall and spring semesters with our partner Adolf Würth at the Akademie Würth Business School in Germany. Students return to the University of Louisville for a final one-month summer residency.

The program fee is EUR 18,950. Application requirements include three years of business experience, a completed undergraduate degree, a TOEFL test score (a minimum is applied), two letters of reference, and health insurance covering instructional periods in the United States.

Program Webpage: business.louisville.edu/uoflmba/
Akademie Würth Business School (Germany)
MBA 655 Strategic Management 3
MBA 640 Marketing and Distribution Management 3
MBA 680 Special Topics in Business (Design Thinking and Innovation of Management II) 1.5
MBA 680 Special Topics in Business (Design Thinking and Management of Innovation III) 1.5
MBA 630 Operations: Design and Analysis 3
MBA 650 Global Business 3
MBA 635 Managerial Finance 3

Summer II
University of Louisville (United States)
MBA 603 Organizational Behavior 1.5
MBA 645 Leadership & Ethics 3
MBA 680 Special Topics in Business (Big Data and Data Analytics for Managers II) 1.5
IMBA 621 Lean Launchpad I 1.5
IMBA 622 Venture Strategic Analysis 1.5
IMBA 631 Lean LaunchPad II 1.5
IMBA 632 Venture Finance 1.5

Minimum Total Hours 45

Sequence of courses are subject to change.

Business Analytics (MS)

Master of Science in Business Analytics
Unit: College of Business (http://business.louisville.edu) (GB)
Unit: Business (http://business.louisville.edu)
Program website (http://catalog.louisville.edu/graduate/programs-study/master-science-business-analytics/business.louisville.edu/msba)

Program Information
The Master of Science in Business Analytics (MSBA) is an accelerated, cohort-based 13-month, three-semester program. Students work both in teams and independently in completing the coursework.

The MSBA curriculum combines information systems technologies, data modeling, and analytics with business acumen and impactful communications to develop the skills necessary to become a successful business analyst with excellent potential for professional growth. The program is also designed and delivered in close collaboration with local businesses providing a strong business orientation, increasing your skill relevance in the marketplace upon graduation.

Admission Requirements
1. Completion of an application along with application fee
2. Provision of two letters of reference, a resume, and a personal statement
3. Completion of an undergraduate degree along with official transcripts
4. GMAT or GRE score: May be waived for applicants with significant work experience in the field of analytics or for applicants with significant academic exposure (e.g., major or minor) in a STEM or technical field

Program Requirements
The Master of Science in Business Analytics (MSBA) program—and the following proposed program curriculum—was approved by the Kentucky Council on Post-secondary Education in April 2018 for offer at the University of Louisville beginning in Fall 2018. Specific course information is preliminary, pending final institutional approvals.

Core Courses and Special Topics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSBA 605</td>
<td>Programming for Analytics</td>
<td>1.5</td>
</tr>
<tr>
<td>MSBA 610</td>
<td>Linear Algebra</td>
<td>1.5</td>
</tr>
<tr>
<td>MSBA 615</td>
<td>Introduction to Statistical Packages</td>
<td>1.5</td>
</tr>
<tr>
<td>MSBA 620</td>
<td>Data Analytics I</td>
<td>3.0</td>
</tr>
<tr>
<td>MSBA 625</td>
<td>Storytelling with Data</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
<td>10.5</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSBA 655</td>
<td>Special Topics: Marketing Analytics</td>
<td>1.5</td>
</tr>
<tr>
<td>MSBA 635</td>
<td>Data Analytics II</td>
<td>3.0</td>
</tr>
<tr>
<td>MSBA 645</td>
<td>Data Mining</td>
<td>3.0</td>
</tr>
<tr>
<td>MSBA 650</td>
<td>Data Analytics III</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
<td>10.5</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSBA 640</td>
<td>Decision Models</td>
<td>3.0</td>
</tr>
<tr>
<td>MSBA 685</td>
<td>Analytics Internship (Capstone or Internship)</td>
<td>3.0</td>
</tr>
<tr>
<td>MSBA 630</td>
<td>Data Management</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

Internship or Capstone
A competitive internship opportunity or capstone project is offered to students in the MSBA program as a requirement that brings real-world business experience to the MSBA program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSBA 685</td>
<td>Analytics Internship (11-month internship, Terms 2-8)</td>
<td>1</td>
</tr>
<tr>
<td>MSBA 685</td>
<td>Analytics Internship (Capstone, Terms 7 &amp; 8)</td>
<td>1</td>
</tr>
</tbody>
</table>

The internship is determined on a competitive basis and lasts 11-months. It is an innovative, unique partnership between the College of Business and the business community. Students access exceptional employment opportunities which provide real-world work experience in business settings. The benefits of an internship cannot be overstated. The salary helps offset some of the tuition requirements and the added workplace experience and improved resume credentials provide students a significant advantage upon graduation.

If a student already has employment or doesn’t want an internship, a capstone course is offered for the same credit hours. The capstone course provides students the opportunity to work with businesses to solve a real business problem. They gain experience with the analytical demands of real business situations.

Certified School Counselor (RANK1)
Rank 1 Program for Certified School Counselor (CPS RK1CSC)
Unit: College of Education and Human Development (http://louisville.edu/education) (GE)
Program Information

Rank 1 programs are not degree programs.

Rank 1 programs are planned graduate-level programs designed for Kentucky educators seeking rank change for salary purposes. They are recognized only in the state of Kentucky. By state regulation, Rank 1 status is sixty (60) semester hours of approved graduate credit, including a master’s degree.

Admission Requirements

Graduates of the University of Louisville MEd in Counseling and Personnel Services program, with a concentration School Guidance Counseling, are eligible to pursue this Rank 1 program.

Candidates who have completed a master’s degree in School Guidance Counseling from other institutions must provide documentation, before applying for admission, that they have completed the requirements leading to the provisional and standard certificates in Kentucky.

Students may apply to the program by first going to the School of Interdisciplinary and Graduate Studies website. Admission requirements include the following credentials:

- Official transcripts with a GPA of 2.75 in the bachelor’s degree and a GPA of 3.0 in the master’s degree
- Kentucky certification as a School Counselor
- For international students, TOEFL (students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement.)

Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) or ECE (Educational Credential Evaluators). Please note that transcript evaluations can sometimes take several weeks.

Please have transcripts sent to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
University of Louisville
Louisville, KY 40292

If transcripts are sent electronically, please have them sent to the following email: gradadm@louisville.edu

Please contact the Director of Graduate Student Services in the Education Advising and Student Services Office for more information at (502) 852-5597.

Rank 1 Program in Certified School Counseling (P-12)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 600</td>
<td>Introduction to Research Methods and Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

or EDAP 639 Education Research in P-12 Setting

Advocacy (Professional Leader)

Leadership

Select one of the following:

- ECPY 605 Human Development
- ECPY 611 Learning Systems: Theory and Practice
- ECPY 640 Assessment Methods for Counselors
- EDAP 677 Developing Collaborative Groups: Facilitating, Coaching and Mentoring
- EDAP 730 Research in Infancy and Early Childhood
- ECPY 650 Group Process and Practice

Diversity

Select one of the following:

- EDAP 637 Using Assessment to Improve Student Achievement
- EDAP 638 Instructional Strategies for Diverse Learners
- EDAP 642 Literacy Learning and Cultural Differences
- EDSP 581 Introduction to Gifted Education
- ECPY 663 Multicultural and Diversity Issues

Area of Emphasis

Select at least 12 credit hours; may be chosen from courses above that are NOT taken to meet the Advocacy requirement

Electives

Select 9 credit hours from the following:

- EDAP 585 Introduction to Educational Technology: Integrating Technology into Instruction
- ECPY 601 Introduction to Clinical Mental Health Counseling
- ECPY 639 Prevention & Treatment of Substance Abuse
- ECPY 694 Graduate Seminar in Educational and Counseling Psychology
- ECPY 721 Advanced Counseling Seminar
- EDSP 540 Introduction to Exceptional Children
- EDSP 644 Applied Behavior Analysis

Prior Masters degree in School Counseling

The number of semester hours required to complete Rank 1

Minimum Total Hours

1 Independent Study or Directed Readings may be included as approved by faculty advisor; also courses in the Advocacy section may be used here as long as they have NOT been taken in the Advocacy or Area of Emphasis sections

2 If masters degree is more than 30 credit hours, indicate the number of hours student needs to complete Rank 1. It may be fewer than 30 credit hours.

Exit Requirement

A portfolio is required for successful completion of this program.

Notes

1. The candidate for Rank 1 should hold a School Counseling certificate and a master’s degree in School Counseling which includes the requirements leading to both provisional and standard licensure.
2. The Rank 1 classification shall require the completion of 60 semester hours of approved graduate level credit including a master’s degree.
3. Candidates will plan the Rank 1 program in consultation with a faculty advisor in the ECPY Department prior to enrolling in Rank 1 courses.
4. Of the total number of hours on the Rank 1 program, at least 15 credit hours beyond the master's degree must be taken at the University of Louisville. The remaining credit hours may be taken at the University of Louisville, or upon approval of the faculty advisor, at other institutions. There is no stipulation as to recency of completion of Rank 1 credit.
5. All coursework for Rank 1 must carry graduate credit, and no less than half must be earned in courses open only to graduate students.
6. An academic average of 3.0 is required on the course hours submitted for Rank 1, and no credit will be accepted for courses carrying a grade lower than C.
7. The resulting School Counseling certification will include grades P-12.
8. A portfolio is required for successful completion of this program.

**Chemical Engineering (MEng)**

**Master of Engineering in Chemical Engineering (CHE MEN)**
Unit: Speed School of Engineering (http://louisville.edu/speed) (SP) Department/Program Webpage: louisville.edu/speed/chemical

**Program Information**

**General Information**
The Bachelor of Science in Chemical Engineering degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Chemical Engineering degree. The Master of Engineering in Chemical Engineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Chemical Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Chemical Engineering bachelor degree program at Speed School. Therefore, students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

**Master of Engineering Program Educational Objectives**
The purpose of the five-year Master of Engineering Program is to bring together the faculty, staff, and capital resources to meet the following program educational objectives:

1. Educate and train graduates with the academic background and practical experiences necessary to function as chemical engineering professionals at an advanced level in a modern, ever-changing world in accordance with the mission of the department
2. Produce graduates who demonstrate competence by being selected for employment by high level industrial, academic and government entities
3. Provide our graduates with the foundation for the development of a successful career and with the understanding that life-long learning is necessary to this development
4. Ensure that our graduates understand the broad societal, ethical and professional issues of the engineering profession

**Master of Engineering Student Outcomes**
In order to achieve these objectives, the Master of Engineering has the following outcomes set for its graduates. Graduates will demonstrate:

1. An ability to apply knowledge of mathematics, science and engineering to identify, formulate and solve advanced chemical engineering problems
2. An ability to design and conduct experiments demonstrating chemical engineering principles, as well as to analyze and interpret resulting data
3. An ability to design a system, component, or process relevant to chemical engineering practice to meet desired needs subject to realistic constraints such as economics, environmental compliance and sustainability, health and safety, manufacturability, and social, political, and ethical implications
4. An ability to function on multi-disciplinary or multi-functional teams
5. An ability to identify, formulate, and solve chemical engineering problems
6. Understanding of the professional and ethical responsibility of the practicing chemical engineer
7. An ability to communicate effectively in writing, orally, and via modern computer technology
8. The broad education necessary to understand the impact of chemical engineers and engineering solutions in a global, economic, environmental, and societal context
9. Recognition of the need for, and an ability to engage in life-long learning
10. a knowledge of contemporary issues, especially those pertinent to the practice of chemical engineering
11. an ability to use the techniques, skills, and modern engineering tools necessary for chemical engineering practice

**Residency**
All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for MEng residency until the degree is awarded (i.e., the candidate must maintain continuous registration, including summer terms, in Graduate Studies). Failure to pay the MEng residency fee will be cause to cancel a student’s residency. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. In order to be restored to residency, the student must submit a new application, have the recommendation of the department chair, receive the approval of the Associate Dean and pay the fee for each of the semesters during which the residency was void.

**Academic Performance**
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.
2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and 7 credit hours for summer terms.

Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic
Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and 7 credit hours for summer terms. Any student who remains in academic probation for two consecutive terms may be considered for dismissal from the program.

3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.

4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

5. A maximum of eight (8) hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

Degree Requirements
The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.

3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.

4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.

5. The MEng degree cannot be conferred prior to the BS degree.

Admission Standards
Since the Chemical Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Chemical Engineering bachelor degree program at Speed School.

The application form is available online at louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication.

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post-conferral of their baccalaureate degree;

2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;

3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.

A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

Program Requirements
The Master of Engineering in Chemical Engineering degree requires the following over and above the Bachelor of Science in Chemical Engineering Degree.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CHE 595</td>
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<td>CHE 610</td>
<td>Advanced Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 620</td>
<td>Transport Phenomena I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 641</td>
<td>Advanced Reactor Design</td>
<td>3</td>
</tr>
<tr>
<td>CHE 686</td>
<td>Chemical Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Technical Electives</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Thesis Alternative:</th>
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<tr>
<td>CHE 697 Master of Engineering Thesis in Chemical Engineering</td>
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<tr>
<td>CHE 698 Engineering Project Fundamentals I</td>
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<td>CHE 699 Engineering Project Fundamentals II</td>
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<table>
<thead>
<tr>
<th>Minimum Total Hours</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

The Master of Engineering (MEng) degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the Master of Engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.

A maximum of eight (8) credit hours of graduate-level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

1. Electives must be chosen so that at least one-half of the total credits counted toward the degree, exclusive of thesis, are 600 level.

2. Technical Electives can be CHE or non-CHE courses. Non-CHE courses must be approved by the student’s research or academic advisor.

3. For the thesis alternative, a student is required to select both an approved MEng thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in CHE 697.
Chemical Engineering (MS)

Master of Science in Chemical Engineering (CHE MS)
Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)
Department/Program Webpage: louisville.edu/speed/chemical

Program Information

General Information
The Master of Science (MS) in Chemical Engineering program is intended for persons having an accredited baccalaureate degree in chemical engineering, but also is available to those with other backgrounds. Applicants with other backgrounds should plan on taking additional undergraduate background coursework.

Students interested in the MS degree program should consult the Director of Graduate Studies in the Department of Chemical Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACSCOC) to award master’s degrees.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing Section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director.

Degree Requirements
The following degree requirements are mandatory of all Master of Science candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Master’s degree students must take at least 24 credit hours of course work at the University of Louisville to satisfy the residency requirement for the master's degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
4. Students have six years after admission to the MS program to complete the degree.

The requirements for the Master of Science degree are discussed in more detail in the Degree Requirements (p. 804) section of this catalog.

Admission Standards
The admission standards for the Master of Science program in Chemical Engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
3. The successful applicant will typically have an undergraduate grade point average of 3.0 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 302 or above.
5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.
6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School Associate Dean for Academic Affairs.
7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

Program Requirements
The minimum curricular requirements for the MS/Master of Science degree program are shown in the table below. For those applicants who, in the opinion of the faculty, do not have a sufficient background, remedial work may be specified.
**Chemical Engineering (PhD)**

**Doctor of Philosophy in Chemical Engineering (CHE PHD)**

Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)  
Department/Program Webpage: louisville.edu/speed/chemical

### Program Information

#### General Information

The PhD degree program is intended for persons having an accredited masters and/or baccalaureate degree in chemical engineering, but is also available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background course work. Students interested in the PhD degree program should consult the Director of Graduate Studies in the Department of Chemical Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award doctoral degrees.

#### Academic Performance

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Performance policies (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research, or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director. Students who seek to return after such a period of time must apply for readmission by completing a University of Louisville graduate application. If admitted, the student will be subject to catalog requirements in effect at the time of readmission.

### Degree Requirements

The award of a Doctor of Philosophy degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. The following degree requirements are mandatory of all doctoral candidates:

1. The Program of Study must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.
2. At least two years of study must be spent at the University of Louisville.
3. One year must be spent in full-time residency (a minimum of 18 credit hours within a 12-month period or four terms of continuous part-time enrollment).
4. The applicant for a Doctor of Philosophy degree must pass an oral and/or written qualifying examination.
5. Admission to candidacy must not be later than the end of the ninth month prior to the awarding of the degree. Students enter Doctoral Candidacy upon completion of all course work, qualifying exams, required research credit hours and other co-curricular requirements. Students who are enrolled in Doctoral Candidacy are considered full-time students. Enrollment in Doctoral Candidacy status must be continuously maintained year round (i.e., Fall, Spring, and Summer) until the degree is awarded.
6. A dissertation is required of all candidates.
7. All candidates must pass a final oral examination. This is to be a defense of the dissertation and a demonstration of the candidate's mastery of his/her field.
8. Ordinarily the equivalent of three years of full-time graduate study is a minimum. However, the candidate must complete all requirements for the degree within four calendar years after passing the qualifying examination.

The requirements for the Doctor of Philosophy degree are explained in more detail in the Degree Requirements section (p. 804) of this catalog.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHE 610</td>
<td>Advanced Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 620</td>
<td>Transport Phenomena I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 641</td>
<td>Advanced Reactor Design</td>
<td>3</td>
</tr>
<tr>
<td>CHE 686</td>
<td>Chemical Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHE 695</td>
<td>Chemical Engineering Seminar</td>
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**Technical Electives**

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**Non-Thesis Option**

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<tr>
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<td>Master of Science Thesis in Chemical Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**

31

1. Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis, are 600 level. At least 15 credit hours of coursework must be in Chemical Engineering/CHE.  
2. At least three (3) credit hours of Technical Electives must be from non-CHE courses, and the student's research advisor or academic advisor must approve non-CHE courses.
3. For the thesis option, a student is required to select both an approved MS thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in CHE 690.
Admission Standards

The admission standards for the PhD program in Chemical Engineering are as follows:

1. All admission applications for the program shall include:
   a. a completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. an application fee,
   c. results from the Graduate Record Examination (GRE),
   d. at least two letters of recommendation, and
   e. official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.

2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.

3. The minimum undergraduate grade point average that will be considered for unconditional acceptance and admission to the program is 3.00 (on a 4.00 scale).

4. The minimum GRE score that will be considered for unconditional acceptance and admission is a combined Verbal and Quantitative Reasoning score 302.

5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.

6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School Associate Dean for Academic Affairs. This will allow consideration of special circumstances in which the potential for acceptable graduate performance has been clearly demonstrated by other means.

7. International students whose primary language is not English must show English language proficiency by either:
   a. total score of 80 or higher on the Test of English as a Foreign Language (TOEFL) Internet-based test or overall IELTS score of 6.5 or higher, or
   b. successfully completing the exit examination for the advanced level of Intensive English as a Second Language Program at the University of Louisville, or
   c. demonstration of a degree award from an acceptable English language institution.

Graduate Studies - PhD

The PhD program in Chemical Engineering is comprised of 54 credit hours beyond the baccalaureate degree in Chemical Engineering. A student entering the PhD program who already has a master’s degree in Chemical Engineering may have some of the credit hours for that degree counted towards the 54 hours. Remedial work may be specified for applicants who, in the opinion of the faculty, do not have sufficient background.

The normal minimum curricular requirements for the doctoral program are listed below. However, some exceptions are possible at the discretion of the faculty and the Graduate Advisor in unusual situations.

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<th>Code</th>
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<tr>
<td>CHE 610</td>
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<td>CHE 620</td>
<td>Transport Phenomena I</td>
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<td>CHE 641</td>
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<td>Technical Electives</td>
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<tr>
<td>CHE 693</td>
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Minimum Total Hours 54

1 At least three (3) credit hours of Technical Electives must be from non-CHE courses, and the student’s research advisor or academic advisor must approve non-CHE courses.

Chemistry (MS)

Master of Science in Chemistry (CHEMMS)

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Department: Chemistry (http://louisville.edu/chemistry)
Program Webpage: louisville.edu/chemistry/academics/graduate-studies

Program Information

The Department of Chemistry, in the College of Arts and Sciences, offers graduate programs leading to the MS (thesis and non-thesis options) and PhD degrees in chemistry with options in analytical chemistry, biochemistry, biomolecular structure and engineering, inorganic chemistry, organic chemistry, physical chemistry, and chemical physics.

The general requirements for admission to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, for admission to candidacy, and for the master’s degree are stated in the General Information section of this catalog. The following additional provisions apply to the program leading to the Master of Science in Chemistry.

Program Requirements

The requirements for the Master of Science in Chemistry are as follows:

1. The general requirements as stated in the General Information section of this catalog.
2. Completion of course curriculum as described in the section on program requirements for the PhD degree.
3. Students with a native language other than English must show a proficiency in English. This requirement may be met with a grade of B in ENGL 101 (or equivalent) or an acceptable score on a standardized test (such as the TOEFL or Michigan test).
4. Registration in seminar course CHEM 695 for the first three semesters of graduate study and an acceptable presentation of a one-hour literature seminar on a topic of current chemical interest or related to the student’s area of research. This seminar must be presented no later than the third semester of graduate studies.
5. Completion of a written MS thesis and an oral defense for the thesis option or completion of an original research proposal (ORP) for the non-thesis option.
Admission Requirements

Students seeking a graduate degree in chemistry should meet the following requirements:

1. A BA or BS degree in chemistry or in a related field such as physics, engineering, or mathematics. It is expected that students will have obtained a background in chemistry equivalent to 36 credit hours of undergraduate coursework. Students planning to pursue graduate study in chemical physics may substitute some of the chemistry hours with advanced courses in physics or mathematics beyond those required for a BA or BS in chemistry. Students with inadequate preparation will be required to register for specific courses in the area of deficiency. Some of these courses, subject to approval by the department, may be accepted for graduate credit. Admission to graduate study in chemical physics is made on the recommendation of the entrance committee for that option.

2. A minimum quality point standing of 3.0 on a 4.0 scale.

3. Submission of Graduate Record Examination scores (students with successful admission generally obtain quantitative and verbal scores totaling 1000 or more with an analytical score of 2.5 or totaling 900 or more with an analytical score of 3.0).

4. Students with a native language other than English must show a proficiency in English. This requirement may be met with a grade of B or better in ENGL 101 (or equivalent) or an acceptable score on a standardized test (such as the TOEFL or Michigan test). A B-minus grade in ENGL 101 is unacceptable.

In individual cases, the conditional admission of a student who does not satisfactorily meet the above requirements may be recommended by the department to the School of Interdisciplinary and Graduate Studies. If admission is granted, that student will be subject to those conditions specified by the department or School of Interdisciplinary and Graduate Studies as being necessary to remedy the conditional admission.

Program Requirements

Master of Science (Thesis) in Chemistry

A minimum of 30 credit hours of graduate credit is required. At least 15 credit hours must be in chemistry courses. An overall GPA of 3.0 must be maintained.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
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<td>CHEM 692</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 695</td>
<td>Seminar</td>
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Research Areas (6 courses from at least 3 of 6 divisions)  

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Thesis Option</td>
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</tr>
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</table>

Minimum Total Hours  


1 Enrollment in the chemistry research course for the first 3 semesters of graduate study is required.


Chemistry Requirements

1. Courses: Students must pass a minimum of six graduate courses from at least three of six divisions (or research areas) with a minimum grade of "C" in any one course. A "C-" grade is considered unacceptable. The areas are: Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, and Physics. An overall GPA of 3.0 or greater is required by the School of Interdisciplinary and Graduate Studies. In addition, a GPA of 3.0 or greater is required in lecture courses by the department.

2. Mentor: The research mentor must be selected during the first semester. Students are required to interview a minimum of 3 chemistry faculty (more are recommended) and have them sign the Mentor Selection Form. The student may choose a mentor after obtaining 3 signatures. If the mentor agrees to accept the student, the mentor will initial the Mentor Selection Form and the student should submit it for final approval by the department Director of Graduate Studies.

3. Research: Research credit will be taken through courses CHEM 691 and CHEM 692 with the graduate mentor listed as the instructor.

4. Seminar: Enrollment in the chemistry research course CHEM 695 for the first three semesters of graduate study is required. The student must present a literature seminar related to their research or on a topic of current chemical interest in the second or third semester of his/her program (excluding summer).

5. Thesis Committee: The student will select his/her Thesis Committee in consultation with the research mentor during the first three semesters of study. The committee consists of the research mentor, a chemistry faculty in the same division, a chemistry faculty in a different division and a faculty member from a different department. Students must have each committee member sign the Thesis Committee Form and submit it the chemistry office.

6. Publication: Scientific publication is an important element of graduate education and research. Therefore, it is normally expected that a manuscript based on the student’s research would have been submitted to a peer-reviewed journal by the time of his/her thesis defense. The student’s contribution must be significant to both the scientific content and the manuscript drafting.

7. Thesis: A written thesis describing the research program is submitted within a minimum of seven days before the defense. The defense consists of a seminar open to the public on the thesis project followed by an oral examination with the Thesis Committee.

Master of Science (Non-Thesis) in Chemistry

A minimum total 30 credit hours of graduate credit is required. At least 15 credit hours must be in chemistry courses. An overall GPA of 3.0 must be maintained.

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<th>Code</th>
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<tbody>
<tr>
<td>CHEM 691</td>
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<tr>
<td>CHEM 692</td>
<td>Research</td>
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</tr>
<tr>
<td>CHEM 695</td>
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Research Areas (6 courses from at least 3 of 6 divisions)  

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Thesis Option</td>
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</table>

Minimum Total Hours  

1 Enrollment in the chemistry research course for the first 3 semesters of graduate study is required.

Note: Students in the PhD program will be awarded an MS degree (non-thesis) after successful completion of the Original Research Proposal and other previous requirements.

Chemistry Requirements

1. Courses: Students must pass a minimum of six graduate courses from at least three of six divisions (or research areas) with a minimum grade of C in any one course. A C-minus grade is considered unacceptable. The areas are: Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, and Physics. An overall GPA of 3.0 or greater is required by the School of Interdisciplinary and Graduate Studies. In addition, a GPA of 3.0 or greater is required in lecture courses by the department.

2. Language: Students with a native language other than English must show a proficiency in English. This requirement may be met with a grade of B in ENGL 101 (or equivalent) or an acceptable score on a standardized test (such as the TOEFL or "Michigan test"). A B-minus in ENGL 101 is considered unacceptable.

3. Mentor: The research mentor must be selected during the first semester. Students are required to interview a minimum of 3 chemistry faculty (more are recommended) and have them sign the Mentor Selection Form. The student may choose a mentor after obtaining 3 signatures. If the mentor agrees to accept the student, the mentor will initial the Mentor Selection Form and the student should submit it for final approval by the department Director of Graduate Studies.

4. Research: Research credit will be taken through courses CHEM 691 and CHEM 692 with the graduate mentor listed as the instructor.

5. Research Proposal: The research proposal serves as the capstone project for the non-thesis MS degree. Students must develop, explain, and defend a research proposal. The proposal can be based on recent literature or the student’s research project (if applicable). The student’s mentor from the chemistry graduate faculty should oversee the proposal committee. The committee consists of the mentor plus two additional chemistry faculty selected by the student in consultation with the mentor.

Chemistry Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>Optical Spectrochemical Methods of Analysis</td>
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</tr>
<tr>
<td>CHEM 621</td>
<td>Electroanalytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 622</td>
<td>Analytical Separations</td>
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<td>CHEM 625</td>
<td>Advanced Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 626</td>
<td>Special Topics in Analytical Chemistry</td>
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<td>CHEM 628</td>
<td>Special Topics in Synthesis and Analysis</td>
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Analytical Division

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Organic Division

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<td>CHEM 670</td>
<td>Chemistry of Heterocyclic Compounds and Alkaloids</td>
<td>3</td>
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<tr>
<td>CHEM 671</td>
<td>Advanced Polymer Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 675</td>
<td>Special Topics in Organic Chemistry</td>
<td>1-3</td>
</tr>
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<td>CHEM 677</td>
<td>Mechanisms and Theory in Organic Chemistry</td>
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<td>CHEM 678</td>
<td>Advanced Organic Chemistry: General Survey</td>
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Physical Chemistry Division

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<tr>
<td>CHEM 661</td>
<td>Chemical Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 665</td>
<td>Special Topics in Physical Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 666</td>
<td>Special Topics in Physical Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 667</td>
<td>Reaction Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 672</td>
<td>Quantum Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 684</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 687</td>
<td>Molecular Spectroscopy</td>
<td>3</td>
</tr>
</tbody>
</table>

Physics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 605</td>
<td>Theoretical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 611</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
</tbody>
</table>

The following courses are not offered by a specific division or are common to all divisions. CHEM 651 and CHEM 652 can count towards the course requirements with approval of the Chemistry Department Director of Graduate Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 503</td>
<td>Special Topics in Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 591</td>
<td>Chemistry for Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 632</td>
<td>Chemical Education for Secondary Teachers</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 651</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 652</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 688</td>
<td>X-Ray Crystallography and Its Application to Molecular Structure</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 695</td>
<td>Seminar</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Chemistry (PhD)

Doctor of Philosophy in Chemistry (CHEMPHD)

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Department: Chemistry (http://louisville.edu/chemistry)
Program Webpage: louisville.edu/chemistry/academics/graduate-studies
Program Information

The Department of Chemistry offers graduate programs leading to the MS and PhD degrees in chemistry with options in analytical chemistry, biochemistry, biomolecular structure and engineering, inorganic chemistry, organic chemistry, physical chemistry, and chemical physics.

The general requirements for admission to the School of Interdisciplinary and Graduate Studies, for admission to candidacy, and for the doctoral degree are stated in the appropriate sections of this catalog. The following additional provisions apply to the programs leading to the Doctor of Philosophy in Chemistry.

Admission Requirements

Students seeking a graduate degree in chemistry should meet the following requirements:

1. A BA or BS degree in chemistry or in a related field such as physics, engineering, or mathematics. It is expected that students will have obtained a background in chemistry equivalent to 36 credit hours of undergraduate coursework. Students planning to pursue graduate study in chemical physics may substitute some of the chemistry hours with advanced courses in physics or mathematics beyond those required for a BA or BS in chemistry. Students with inadequate preparation will be required to register for specific courses in the area of deficiency. Some of these courses, subject to approval by the department, may be accepted for graduate credit. Admission to graduate study in chemical physics is made on the recommendation of the entrance committee for that option.
2. A minimum quality point standing of 3.0/4.0.
3. Submission of Graduate Record Examination scores (students with successful admission generally obtain quantitative and verbal scores totaling 1000 or more with an analytical score of 2.5 or totaling 900 or more with an analytical score of 3.0).

In individual cases, the conditional admission of a student who does not satisfactorily meet the above requirements may be recommended by the department to the School of Interdisciplinary and Graduate Studies. If admission is granted, that student will be subject to those conditions specified by the department or School of Interdisciplinary and Graduate Studies as being necessary to remedy the conditional admission.

Program Requirements

A minimum of 30 credit hours of graduate credit is required. At least 15 credit hours must be in chemistry courses. An overall GPA of 3.0 must be maintained. Other master’s degree details are included in the Degree Requirements section (p. 804) of this catalog. Details are given in the current "Graduate School Bulletin."

Courses

Students must pass a minimum of six graduate courses from at least three of six divisions (or research areas) with a minimum grade of C in any one course. A C-minus grade is considered unacceptable. The areas are: Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, and Physics. For every A-minus grade or better that is received, students with an MS degree may waive one lecture course, up to a maximum of 2 courses.

An overall GPA of 3.0 or greater is required by the School of Interdisciplinary and Graduate Studies. In addition, a GPA of 3.0 or greater is required in lecture courses by the department.

Mentor

The research mentor must be selected during the first semester. Students are required to interview a minimum of 3 chemistry faculty (more are recommended) and have them sign the Mentor Selection Form. The student may choose a mentor after obtaining 3 signatures. If the mentor agrees to accept the student, the mentor will initial the Mentor Selection Form and the student should submit it for final approval by the department Director of Graduate Studies.

Seminar

Enrollment in the chemistry research course (CHEM 695) for the first three semesters of graduate study is required. The student must present a literature seminar related to their research or on a topic of current chemical interest in the second or third semester of his/her program (excluding summer).

Cumulative Exams

Students must complete a series of written cumulative examinations within their division designed to show broad knowledge in their chosen area. Cumulative exams begin in the second semester and are given the third week of January, February, March, September, October, and November. Each division will write a unique exam each month covering topics from undergraduate course content within that division, graduate-level content from the current and prior semester, and content from the current literature and/or departmental seminars. Exams are scored on a scale of 0–3 points in half-point increments. Students must score 2.0 or higher on at least 4 exams and accumulate 11 points within their research division by the end of the 9th consecutive exam to qualify for the PhD program. An absence from an exam, unless excused by the Director of Graduate Studies, is scored as 0 and constitutes an attempt.

Research

Research credit will be taken through courses CHEM 691 and CHEM 692 with the graduate mentor listed as the instructor.

Dissertation Committee

The student will select his/her Dissertation Committee in consultation with the research mentor during the first 4 semesters of study. The committee consists of the research mentor, a chemistry faculty in the same division, a chemistry faculty in a different division, and a faculty member from a different department. Students may add an additional chemistry faculty to the committee if they choose to. Students must have each committee member sign the Dissertation Committee Form and submit it to the chemistry office.

Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 691</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 695</td>
<td>Seminar</td>
<td>1-3</td>
</tr>
<tr>
<td>Research Areas (6 courses from at least 3 of 6 divisions)</td>
<td>12.20</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

1 Enrollment in the chemistry research course for the first 3 semesters of graduate study is required.

Research Proposal (RP)

The research proposal (RP) must be completed by the end of the 5th semester (excluding summers) without exception. If it is not completed within the 5th semester, the student will not be in good standing and may be dismissed from the program. Evaluation of the RP is made by the student’s graduate advisory committee (dissertation committee), which is chaired by the research mentor. The RP is intended to demonstrate the student's ability to develop, explain, and defend a research idea that the student plans to conduct in the laboratory or on a completely original idea if desired. The proposal should present preliminary results from the student’s research and/or from the literature and develop one original hypothesis fully with an explanation of experimental details and expected results. The student should show how the hypothesis will be tested experimentally and provide plans for different outcomes. The student should also communicate the importance of the work and how it will provide new fundamental knowledge to the field, a solution to an important problem, or a potential application. Students are expected to demonstrate their originality, innovation and understanding of the scientific process. This requirement includes a written research proposal and an oral presentation/examination. The requirements of each are described below.

Written Research Proposal

The written RP is strictly limited to 6 pages (single-spaced, 1-inch margins) including figures, but not including references. Treat the written proposal as if you were actually submitting it as part of a job application or for funding. It should clearly and concisely present your proposed research and why it should be funded. This should include a brief summary and introduction to outline the problem, why it is important, and what progress others in the field have made. It should state a hypothesis that your planned work will test and specific aims of the research. The proposal may provide preliminary data from research or literature and should describe what will be done, why this system was selected, how it will be done, what are the expected results, how success will be determined, and what is the impact if successful. The new proposed work should take up the bulk of the written RP (3–4 pages). The proposal should be well referenced in the style of a major journal in your field. Carefully proofread your proposal and have a trusted friend proofread it as well. Typos, poor grammar, low-quality graphics, and "simple mistakes" detract from your scientific argument and make the work appear sloppy, disorganized, and of low quality. The written RP is to be revised at least once by the research advisor before being submitted to the committee at least one week prior to the oral presentation/examination. The committee may return unsatisfactory written proposals to the student and delay the oral examination until at least one week after an acceptable rewrite is received.

Oral Presentation/Examination

Treat the oral presentation/examination as if the written RP was submitted with a job application and you were called for an interview to present it. Do not assume that everyone knows the proposal as well as you, they don’t. It is your responsibility to present the proposed work in a clear and fluid manner to an audience that is not intimately familiar with your proposal. The presentation should be professional. Expect frequent interruptions during your presentation and be prepared to answer questions on your proposal, techniques related to it, and contributions of others in the field. The oral presentation can be given on PowerPoint, but with no more than 20 slides total (including any supplemental slides). A student failing the oral examination may repeat it only one time, at the discretion of the student’s graduate advisory committee.

The MS degree (non-thesis) will be awarded upon successful completion of the research proposal.

Research

Progress in research will be evaluated by the research mentor in consultation with the Dissertation Committee.

Research Seminar

A one-hour seminar on the student’s dissertation research project is to be given before the end of the 8th semester (excluding summers). This seminar does not require the student to enroll in CHEM 695, but the student should contact the CHEM 695 instructor to schedule a time and date for evaluation criteria. The seminar will be judged as pass/fail.

Publications

It is normally expected that prior to the Research Seminar, at least one manuscript based on the student’s research would have been submitted to a peer-reviewed journal. The student’s contribution must be substantial to both the scientific content and the drafting of the manuscript. At least one research article based on the student’s dissertation research must either be published or accepted for publication in a peer-reviewed journal before scheduling the PhD dissertation defense. It is highly recommended that the student distribute the published manuscript(s) and any submitted manuscripts to the members of her/his Dissertation Committee.

Dissertation

A written dissertation describing the research program is submitted a minimum of 14 days before the defense. The defense consists of a one-credit hour seminar followed by an oral examination with the Dissertation Committee.

Chemistry Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 620</td>
<td>Optical Spectrochemical Methods of Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Electroanalytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 622</td>
<td>Analytical Separations</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 625</td>
<td>Advanced Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 626</td>
<td>Special Topics in Analytical Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 628</td>
<td>Special Topics in Synthesis and Analysis</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 630</td>
<td>Advanced Topics in Chemical Analysis</td>
<td>1</td>
</tr>
</tbody>
</table>

Biochemistry Division

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 645</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 681</td>
<td>Modern Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 682</td>
<td>Modern Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 684</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 685</td>
<td>Special Topics in Biochemistry</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Inorganic Division

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 550</td>
<td>Group Theory and its Chemical Applications</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 653</td>
<td>Main Group Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 654</td>
<td>Advanced Coordination Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 655</td>
<td>Special Topics in Inorganic Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 656</td>
<td>Special Topics in Inorganic Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 659</td>
<td>Solid State Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>
Organic Division

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 557</td>
<td>Bio-Organic Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 670</td>
<td>Chemistry of Heterocyclic Compounds and Alkaloids</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 671</td>
<td>Advanced Polymer Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 675</td>
<td>Special Topics in Organic Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 677</td>
<td>Mechanisms and Theory in Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 678</td>
<td>Advanced Organic Chemistry; General Survey</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 679</td>
<td>Advanced Organic Synthesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Physical Chemistry Division

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 660</td>
<td>Advanced Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 661</td>
<td>Chemical Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 665</td>
<td>Special Topics in Physical Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 666</td>
<td>Special Topics in Physical Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 667</td>
<td>Reaction Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 668</td>
<td>Electrochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 672</td>
<td>Quantum Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 684</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 687</td>
<td>Molecular Spectroscopy</td>
<td>3</td>
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</tbody>
</table>

Physics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 605</td>
<td>Theoretical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 611</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
</tbody>
</table>

The following courses are not offered by a specific division or are common to all divisions. CHEM 651 and CHEM 652 can count towards the course requirements with approval of the Chemistry Department Director of Graduate Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 503</td>
<td>Special Topics in Chemistry</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 591</td>
<td>Chemistry for Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 632</td>
<td>Chemical Education for Secondary Teachers</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 651</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 652</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 688</td>
<td>X-Ray Crystallography and Its Application to Molecular Structure</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Research</td>
<td>1-15</td>
</tr>
<tr>
<td>CHEM 695</td>
<td>Seminar</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Civil Engineering (MEng)

Master of Engineering in Civil Engineering (CE MEN)

Program Information

General Information

The Bachelor of Science in Civil Engineering degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Civil Engineering degree. The Master of Engineering in Civil Engineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Civil Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Civil Engineering bachelor degree program at Speed School. Therefore, students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

Master of Engineering Program Educational Objectives

The purpose of the five-year Master of Engineering Program is to bring together the faculty, staff, and capital resources to meet the following program educational objectives:

1. In accordance with our mission statement, provide instruction and associated activities necessary for our graduates to grow from technical competency to professional proficiency
2. Foster an appreciation in our graduates for professional development and life-long learning
3. Provide an educational experience that inspires our graduates to exhibit leadership and team-building skills
4. Promote service by our graduates to the profession, and to society

Master of Engineering Student Outcomes

In order to achieve these objectives, the Master of Engineering has the following outcomes set for its graduates.

1. Develop in students an ability to apply knowledge from math, science and engineering
2. Develop an ability to organize and conduct laboratory and field work
3. Develop an ability to analyze and interpret data
4. Develop student competence in the design of systems, components, and processes to meet specific needs
5. Provide experience and guidance in working on teams, having a diverse technical makeup
6. Train students to identify, formulate, and solve engineering problems
7. Instill in students an understanding of professional and ethical responsibilities, both in education and in practice
8. Develop and practice effective oral communication
9. Develop and practice effective written and graphic communication
10. Provide a breadth of coursework and perspectives which create an understanding of the impact of engineering in society, both local and global
11. Create an awareness in students of the need for life-long learning, whether through formal education or via many other means
12. Expose students to contemporary issues pertinent to the practice of civil engineering
13. Through both instruction and practice, develop in students an ability to use the techniques, skills and modern engineering tools commonly used in civil engineering practice.

Residency
All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for MEng residency until the degree is awarded (i.e., the candidate must maintain continuous registration, including summer terms, in Graduate Studies). Failure to pay the MEng residency fee will be cause to cancel a student’s residency. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. In order to be restored to residency, the student must submit a new application, have the recommendation of the department chair, receive the approval of the Associate Dean and pay the fee for each of the semesters during which the residency was void.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.
2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms.

   Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms. Any student who remains in academic probation for two consecutive terms may be considered for dismissal from the program.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.
5. A maximum of eight (8) hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

Degree Requirements
The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.
4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.
5. The MEng degree cannot be conferred prior to the BS degree.

Admission Standards
Since the Civil Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Civil Engineering bachelor degree program at Speed School.

The application form is available online at louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication.

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post conferral of their baccalaureate degree;
2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;
3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.

A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

Program Requirements
The Master of Engineering in Civil Engineering degree requires the following over and above the Bachelor of Science in Civil Engineering Degree:

MEng Additional Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 680</td>
<td>Civil Engineering Capstone Design</td>
<td>3</td>
</tr>
<tr>
<td>CEE Electives</td>
<td>1,2</td>
<td>15</td>
</tr>
<tr>
<td>Technical Electives</td>
<td>1,3</td>
<td>6</td>
</tr>
<tr>
<td>Thesis Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEE 697</td>
<td>Master of Engineering Thesis in Civil Engineering</td>
<td>6</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>
The Master of Engineering (MEng) degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the Master of Engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.

A maximum of eight (8) credit hours of graduate-level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

1. Electives must be chosen so that at least one-half of the total credits counted toward the degree, exclusive of thesis, are 600-level. All courses must be at the 500 level or higher.
2. CEE Electives must be approved by the department.
3. Technical Electives can be CEE or non-CEE courses. Technical Electives must be approved by the department.
4. For the thesis option, a student is required to select both an approved MEng thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in CEE 697.

Civil Engineering (MS)

Master of Science in Civil Engineering (CE MS)
Unit: Speed School of Engineering (GS) (http://louisville.edu/speed)
Program Webpage: louisville.edu/speed/civil/

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-science-in-civil-engineering).

The Master of Science (MS) degree program is intended for persons having an accredited baccalaureate degree in civil engineering, but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background coursework. Students interested in the MS degree program should consult the Director of Graduate Studies in the Department of Civil Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award master's degrees.

Academic Performance

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing Section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director.

Degree Requirements

The following degree requirements are mandatory of all Master of Science candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Masters students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master's degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
4. Student has six years after their admission to the MS program to complete their degree.

The requirements for the Master of Science degree are discussed in more detail in the Degree Requirements (p. 804) section of this catalog.

Admission Standards

The admission standards for the Master of Science program in Civil Engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.
5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the
Students interested in the PhD degree program should consult the director of Graduate Studies in the Department of Civil Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award doctoral degrees.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Probation section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research, or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

Program Information
General Information
The PhD degree program is intended for persons having an accredited masters and/or baccalaureate degree in civil engineering, but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background course work. Students interested in the PhD degree program should consult the

Graduate Work
Remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background. The minimum curricular requirements for the master's degree program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE Ectives 1</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Non-CEE Ectives 1,2</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Thesis Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEE 690</td>
<td>Master of Science Thesis in Civil Engineering 3</td>
<td></td>
</tr>
<tr>
<td>Non-Thesis Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Ectives 1,2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

The Master of Science degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements and all academic work attempted in Graduate Studies.

1 Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis, are 600-level; at least 15 credit hours of coursework must be in CEE.
2 Technical Electives can be CEE or non-CEE courses. Technical Electives must be approved by the department.
3 For the thesis option, a student is required to select both an approved MS thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in CEE 690.

Civil Engineering (PhD)
Doctor of Philosophy in Civil Engineering (CE PHD)
Unit: Speed School of Engineering (http://louisville.edu/speed) (GS) Department/Program Webpage: louisville.edu/speed/civil/

Degree Requirements
The award of a Doctor of Philosophy degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. The following degree requirements are mandatory of all doctoral candidates:

1. The Program of Study must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.
2. At least two years of study must be spent at the University of Louisville.
3. One year must be spent in full-time residency (a minimum of 18 credit hours within a 12-month period or four terms of continuous part-time enrollment).
4. The applicant for a Doctor of Philosophy degree must pass an oral and/or written qualifying examination.
5. Admission to candidacy must not be later than the end of the ninth month prior to the awarding of the degree. Students enter Doctoral Candidacy upon completion of all course work, qualifying exams, required research credit hours and other co-curricular requirements. Students who are enrolled in Doctoral Candidacy are considered full-time students. Enrollment in Doctoral Candidacy status must be continuously maintained year round (i.e. Fall, Spring, and Summer) until the degree is awarded.
6. A dissertation is required of all candidates.
7. All candidates must pass a final oral examination. This is to be a defense of the dissertation and a demonstration of the candidate’s mastery of his/her field.

8. Ordinarily the equivalent of three years of full-time graduate study is a minimum. However, the candidate must complete all requirements for the degree within four calendar years after passing the qualifying examination.

The requirements for the Doctor of Philosophy degree are explained in more detail in the Degree Requirements section (p. 804) of this catalog.

**Admission Standards**

The admission standards for the PhD program in Civil Engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two (2) letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.

2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.

3. The successful applicant will typically have an undergraduate grade point average of 3.00 or above (on a 4.00 scale).

4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.

5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.

6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School Associate Dean for Academic Affairs.

7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

**Program Requirements**

Normally, it is expected that the student will complete a master’s degree before being admitted to the PhD Program. However, qualified applicants may be admitted directly to the doctoral program after receiving a baccalaureate degree. These students will be required to complete an additional 30 credit hours of coursework at the 500 and 600 level under an individual plan developed in conjunction with the department’s Director of Graduate Studies. Also, remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background.

The minimum curricular requirements for the doctoral program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approved Master’s Level Course Work</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Technical Electives ¹</td>
<td>15</td>
</tr>
<tr>
<td>CEE 698</td>
<td>Civil Engineering PhD Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CEE 699</td>
<td>Civil Engineering PhD Research</td>
<td>12</td>
</tr>
</tbody>
</table>

Minimum Total Hours 60

Candidates for the Doctor of Philosophy degree must have a minimum final cumulative grade point average of 3.00 for all academic work attempted in Graduate Studies.

¹ Technical electives can be CEE or non-CEE courses. Technical Electives must be approved by the department.

**Clinical Investigation Sciences (CERT)**

**Graduate Certificate in Clinical Investigation Sciences (CISCCCI)**

Unit: Public Health and Information Sciences (http://louisville.edu/sphis) (GH)
Program Webpage: louisville.edu/sphis/academics/clinical-investigation-sciences

**Program Information**

The Certificate in Clinical Investigation Sciences provides individuals with skills required for a career in a clinical research setting. The curriculum integrates biostatistical and epidemiologic methods. Students pursuing the Certificate take didactic courses while they engage in mentored and independent research that culminates in the preparation of a research paper.

The Certificate in Clinical Investigation Sciences requires completion of 15 credit hours.

**Competencies**

The successful student is able to:

- Address and discuss methods and issues of clinical epidemiology.
- Identify important clinical research questions and state as testable hypotheses.
- Apply the principles of data collection, monitoring, management and analysis within the context of a multidisciplinary team.
- Analyze human subject issues and perform and disseminate clinical research.

It is expected that prior to graduation, students in the program have demonstrated these competencies by completing the curriculum and successfully writing the research paper.
Admission Requirements
Applicants must have completed a baccalaureate degree from an accredited institution with a minimum of 3.0 GPA on a 4.0 scale. Applicants that have had research experience (e.g., research coordinator) or have completed a professional degree (e.g., DMD, DO, MD) are preferred.

Application requirements are submitted to the School of Interdisciplinary and Graduate Studies Graduate Admissions and include:

• Formal application
• Curriculum vitae
• Personal statement: a one-page essay that discusses the student’s background and his or her long-term goals in clinical research
• Application fee
• A minimum of two letters of recommendation
• Official transcripts of all postsecondary coursework
• Official scores on the Graduate Record Examination (GRE) General Test. This requirement may be waived for applicants that have a doctoral degree or who have four or more years of clinical research related experience.

For specific information about the degree program or the application process, students should contact Dr. Paul McKinney, Program Director, (502) 852-3019, or Winton Reynolds, Program Coordinator, (502) 852-1992.

The application for graduate programs at the University of Louisville can be found at: louisville.edu/graduate/apply

Curriculum
The typical progression through the Certificate curriculum is:

• Required Coursework (14 credit hours)
• Complete research paper (1 credit hour)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHST 500</td>
<td>Introduction to Biostatistics for Health Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PHST 501</td>
<td>Introduction to Biostatistics for Health Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 614</td>
<td>Introduction to Clinical Epidemiology</td>
<td>2</td>
</tr>
<tr>
<td>PHST 624</td>
<td>Clinical Trials I: Planning and Design</td>
<td>2</td>
</tr>
<tr>
<td>PHST 625</td>
<td>Clinical Trials II</td>
<td>2</td>
</tr>
<tr>
<td>PHST 631</td>
<td>Data Collection for Clinical Research</td>
<td>2</td>
</tr>
<tr>
<td>PHPH 699</td>
<td>Mentored Research</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

If a student chooses to pursue the Master of Science in Clinical Investigation Sciences degree at any time after enrolling in or completing the certificate program, then all coursework completed within the preceding five years with a grade of B or better may be applied towards the MSc in CIS degree.

PHPH 699 Mentored Research
Each student in the Certificate Program is required to prepare a research paper as part of the mentored research course. The research paper can be a literature review or a research project. Data collection is not required. The paper is to be submitted in completed form to the program coordinator at least two weeks before the end of the semester in which the candidate expects to graduate.

Clinical Investigation Sciences (MSc)

Master of Science in Clinical Investigation Sciences (CISCMSC)

Unit: Public Health and Information Sciences (http://louisville.edu/sphis) (GH)

Department: Clinical Investigation Sciences

Program Webpage: louisville.edu/sphis/academics/clinical-investigation-sciences

Program Information
The MSc in Clinical Investigation Sciences degree program provides physicians, dentists, nurses and other health professionals an opportunity to acquire the clinical research skills necessary for a career in an academic health center.

The MSc in Clinical Investigation Sciences curriculum integrates biostatistical and epidemiologic methods in a problem-based learning format with additional instruction in several other biomedical and public health topics. Students pursuing the master’s degree take didactic courses while they engage in mentored and independent research that culminates in the preparation of a professional paper.

Competencies
The successful student is able to:

• Access and critique the scientific literature.
• Address and discuss methods and issues of clinical epidemiology.
• Identify important clinical research questions and state as testable hypotheses.
• Develop collaborative clinical research studies in accordance with appropriate epidemiologic and biostatistical methodologies.
• Apply the principles of data collection, monitoring, management and analysis within the context of a multidisciplinary team.
• Disseminate study results to professional and lay audiences through oral and written communication.
• Analyze human subjects’ issues and apply ethical principles in performing and disseminating clinical research.
• Discuss and respond to the legal issues in new drug and device development.

It is expected that prior to graduation, students in the program have demonstrated these competencies by completing the curriculum, participating in a collaborative research project, and successfully writing and defending the professional paper.

Admission Requirements
Applicants must have completed a baccalaureate degree from an accredited institution with a minimum GPA of 3.0 on a 4.0 scale. Applicants that have had research experience (e.g., research coordinator) or have completed a professional doctoral degree (e.g., DMD, DO, MD) are preferred.

Application requirements are submitted to the School of Interdisciplinary and Graduate Studies Graduate Admissions and include:
Program Requirements

31 total credit hours of required coursework

- 19 credit hours of required coursework
- 9 credit hours of elective coursework
- 3 credit hours of mentored research

The following includes all required courses organized by the semester in which they are offered. Some courses are offered in alternating years (see below).

Course Offerings by Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Required Coursework</td>
<td></td>
</tr>
<tr>
<td>PHPH 523</td>
<td>Public Health in the United States</td>
<td>2</td>
</tr>
<tr>
<td>PHST 500</td>
<td>Introduction to Biostatistics for Health Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PHST 624</td>
<td>Clinical Trials I: Planning and Design</td>
<td>2</td>
</tr>
<tr>
<td>PHST 631</td>
<td>Data Collection for Clinical Research</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHST 501</td>
<td>Introduction to Biostatistics for Health Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>PHST 625</td>
<td>Clinical Trials II</td>
<td>2</td>
</tr>
<tr>
<td>PHPH 632</td>
<td>Ethical Conduct of Health Care Research</td>
<td>2</td>
</tr>
<tr>
<td>PHEP 614</td>
<td>Introduction to Clinical Epidemiology</td>
<td>2</td>
</tr>
<tr>
<td>PHPH 601</td>
<td>Evaluating Health Care Literature</td>
<td>1</td>
</tr>
<tr>
<td>PHPH 699</td>
<td>Mentored Research</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Sample Two-year Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHST 500</td>
<td>Introduction to Biostatistics for Health Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 523</td>
<td>Public Health in the United States</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Hours</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHST 501</td>
<td>Introduction to Biostatistics for Health Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 601</td>
<td>Evaluating Health Care Literature (Offered odd-numbered years)</td>
<td>1</td>
</tr>
<tr>
<td>PHEP 614</td>
<td>Introduction to Clinical Epidemiology (Offered odd-numbered years)</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

1 PHPH 523 is required of students who do not have a broad exposure to public health through experience or coursework. It is offered only in the Fall. Any student who waives out of the course must replace the two-semester hours with elective coursework.

2 PHPH 632 is offered every other spring semester on even numbered years (2018, 2020, 2022, etc.).

3 PHEP 614 and PHPH 601 are offered every other spring semester on odd numbered years (2019, 2021, 2023, etc.).
The committee schedules an oral examination of the candidate during which the student presents his or her professional paper and is asked to defend it and the supporting research. The professional paper is approved by a majority vote of the committee and by the program director.

Communication (MA)

Master of Arts in Communication (COMMMA)

Unit: College of Arts and Sciences (GA)
Department: Communications
Program Webpage: louisville.edu/communication

Program Information

The Master of Arts in Communication is a 37-credit hour program. It includes 22 credit hours of foundation and core courses, nine hours of electives, and a six (6)-credit hour thesis or non-thesis option. The non-thesis option includes a three (3)-credit hour practicum and an additional three (3)-credit hour elective course.

At least 19 of the 37 credit hours must be in courses at the 600 level.

Upon admission to the program, the student will work with the Director of Graduate Studies to establish a plan of study. After the second semester, students choosing the thesis option will select a mentor who will provide guidance for the thesis and selecting two additional faculty to serve on the thesis committee, one of whom must be outside the Department of Communication. Students choosing the non-thesis option will select a mentor who will provide guidance concerning the practicum and course selection. Students choosing the non-thesis option will take a written comprehensive exam administered by the Communication Department faculty.

Admission Requirements

Applicants need an undergraduate degree in Communication or a related discipline, a 3.0 GPA on a four-point scale, and official GRE scores. Conditional admission is possible for students with lower GRE scores and/or undergraduate GPA.

Application materials include:

- An official copy of university transcripts
- A writing sample
- A personal statement
- Three (3) letters of recommendation
- An application (http://louisville.edu/graduate/apply)
- Application fee

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 506</td>
<td>Ethical Problems in Communication - CUE, WR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 601</td>
<td>Professional Seminar in Communication</td>
<td>1</td>
</tr>
<tr>
<td>COMM 605</td>
<td>Communication Theory &amp; Practice</td>
<td>3</td>
</tr>
<tr>
<td>COMM 616</td>
<td>Qualitative Communication Research</td>
<td>3</td>
</tr>
<tr>
<td>COMM 617</td>
<td>Quantitative Methods in Communication</td>
<td>3</td>
</tr>
<tr>
<td>Area 1: Interactional Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select ONE of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 580</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 590</td>
<td>Health Communication</td>
<td></td>
</tr>
</tbody>
</table>
Experiential Component

The Master of Arts does not require an experiential component. However, students may choose to do a practicum in a private business, community organization, or government agency that deals with communication. Students may complete the practicum in two ways. A student may turn current work or volunteer experience into a research project, or a student not previously affiliated with the practicum site may develop a project useful to the organization. In both cases, the student will work with a Communication Department faculty member to shape the project and will write a formal paper dealing with the project. Students who choose the practicum will be applying knowledge acquired in Communication coursework directly to area needs, thus serving the community and helping to build stronger university/community ties.

Communicative Disorders (MS)

Master of Science in Communicative Disorders (CMDSMS)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department: Communicative Disorders
Program Webpage: louisville.edu/medschool/surgery/com-disorders/slp

Program Information
Speech-Language Pathology at the University of Louisville is a well-established program that provides challenging academic coursework and clinical experience to master's degree candidates. Communicative Disorders is a Division within the Department of Otolaryngology—Head and Neck Surgery and Communicative Disorders in the School of Medicine. The graduate program offers a unique opportunity to pursue a Master of Science degree to students with and without undergraduate degrees in speech-language pathology. The program includes two options or phases: the Preparatory Phase or the Core Phase.

Preparatory Phase
Applications from students without a background in speech-language pathology will be submitted automatically to the Preparatory Phase of the program. The Preparatory Phase is a full-time, seven-semester sequence, beginning each year in the Fall Semester.

Core Phase
Applications from students who currently hold a bachelor's degree in speech-language pathology will be submitted automatically to the Core Phase of the program. The Core Phase is a full-time, five-semester sequence beginning each year in the Fall Semester.

The Council on Academic Accreditation in Audiology and Speech Language Pathology (CAA) of the American Speech Language Hearing Association (ASHA) accredits the program. Graduating students will be eligible to apply for the Certificate of Clinical Competence by ASHA if all requirements are fulfilled.

The program has cooperative arrangements with more than thirty schools, agencies, hospitals, and practice groups in the Kentuckiana region.

Degree Requirements
Candidates for the Master of Science degree in speech pathology must complete at least 54 credit hours at the graduate level, exclusive of credits related to the completion of an (optional) master's thesis, courses
required to complete ASHA certification requirements, and/or coursework related to Kentucky State Teacher Certification.

Please refer to the section on Academic Standing (p. 802) in this catalog entitled “Academic Probation” concerning dismissal/retention in the program.

Pass/Fail Option
In general, students in Speech Pathology may not choose the pass/fail option. Certain courses may be offered with this option at the discretion of the faculty.

Comprehensive Exams
Students will complete an eight-hour written comprehensive examination (across two days) followed by a 45-minute oral comprehensive examination during their last semester of study. The completion and defense of a thesis/research project are encouraged but is optional. The aforementioned written and oral comprehensive exams are not required for thesis/research project students (outside of the defense of their research).

The comprehensive examinations-defense must be completed at least five weeks prior to the completion of the student's graduate program. The student is responsible for becoming familiar with the consequences of failure on the written or oral examinations. This information is available in the student academic policy manual.

Clinical Practicum
The American Speech Language Hearing Association requires a minimum of 400 clock hours of supervised clinical practicum in speech pathology to be eligible for certification. Twenty clock hours must be in the student’s minor area and 325 of the 400 hours must be at the graduate level. All students must have had 25 hours of observation. If they were obtained at the undergraduate level, they are not repeated. The student may spend the last 8 weeks of the program at a clinical site outside the Louisville area.

Certain prerequisites and standards apply to the clinical practicum component of the program, including minimum coursework requirements, mandatory readings, observations, case report formats, and grading criteria. This information is available in the program office and it is the student’s responsibility to become acquainted with these requirements prior to enrolling in clinical practicum.

Falling below a 3.0 average in practicum for two consecutive semesters will result in dismissal from the program. Practicum assignments are made at the faculty’s discretion and with the service needs of the clinic in mind. All practicum work done outside of the main program must be given prior approval by the clinical director.

Admission Requirements
The application deadline for the fall semester is always the preceding February 1st.

The Preparatory Phase and the Core Phase share the following admission criteria and application process, including the application form.

Admission Criteria
- Minimum undergraduate cumulative GPA of at least 3.0 (on a 4.0 scale)
- Successful applicants have a combined GRE score of 300 for Verbal and Quantitative sections using the new GRE conversion tables

Beginning November 1, 2011 (as outlined by the Council of Academic Accreditation in Audiology and Speech Language Pathology)
- IELTS Exam (if necessary) The Graduate Council supported and approved a minimum of 6.5 on the IELTS, International English Language Testing System, as way for graduate applicants to demonstrate English proficiency
- Three supportive letters of recommendation from two academic sources and one personal source. Please use the online recommendation form when completing the application for graduate admission supplied by the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate), you can follow this link louisville.edu/graduate/apply
- A formal interview may be required of some applicants

Student, faculty, and staff in the program are treated in a nondiscriminatory manner without regard race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity or expression, marital status, pregnancy, veteran status, or political affiliation. The institution and program comply with all applicable laws, regulations, and executive orders pertaining thereeto.

Prerequisite Coursework (http://louisville.edu/medicine/degrees/speechpathology/files/copy_of_RequiredPrerequisiteCoursework.pdf)
Applicants should also consult general graduate admissions and graduation requirements in the University of Louisville Graduate Catalog for further information.

Average Admissions Information
We are frequently asked about the credentials of students who have been admitted to our program. The class beginning Fall 2017 were admitted with the following credentials:

Core Students: MEAN GPA: 3.71 | MEAN GRE Score: 303 | MEAN QUANTITATIVE Score: 152 | MEAN VERBAL Score: 148 | MEAN WRITING Score: 4.0
Prep Students: MEAN GPA: 3.71 | MEAN GRE Score: 303 | MEAN QUANTITATIVE Score: 154 | MEAN VERBAL Score: 149 | MEAN WRITING Score: 4.4

Tuition Information
For more information on tuition at the University of Louisville louisville.edu/finance/bursar/tuition

How to Apply
The Preparatory Phase and the Core Phase use the same application form. Applications of students with Bachelor's degrees in speech-language pathology will automatically be considered for admission to the Core Phase of the program. Applications for students without Bachelor’s degrees in speech-language pathology will be considered for admission to the Preparatory Phase of the program.

Students apply to the program using the University of Louisville, School of Interdisciplinary and Graduate Studies, Graduate Admissions louisville.edu/graduate/apply.

Program Requirements
The graduate program offers a unique opportunity to pursue a Master of Science degree to
students with and without undergraduate degrees in speech-language pathology. The program includes two options or phases: phases. the Preparatory Phase or the Core Phase.

Preparatory Phase
Applications from students without a background in speech-language pathology will be submitted automatically to the Preparatory Phase of the program. The Preparatory Phase is a full-time, seven-semester sequence, beginning each year in the Fall Semester.

Core Phase
Applications from students who currently hold a bachelors’ degree in speech-language pathology will be submitted automatically to the Core Phase of the program. The Core Phase is a full-time, five-semester sequence beginning each year in the Fall Semester.

Speech Language Pathology MS Degree - Preparatory Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMDS 572</td>
<td>Anatomy and Physiology for Communication Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CMDS 600</td>
<td>Research Methods in Speech-Language Pathology</td>
<td>2</td>
</tr>
<tr>
<td>CMDS 602</td>
<td>Speech Sound Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 611</td>
<td>Practicum in Speech Pathology ¹</td>
<td>1</td>
</tr>
<tr>
<td>CMDS 612</td>
<td>Early Childhood Language Assessment &amp; Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 620</td>
<td>Motor Speech Disorders</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>CMDS 611</td>
<td>Practicum in Speech Pathology (Clinical Methods)²</td>
<td>1</td>
</tr>
<tr>
<td>CMDS 652</td>
<td>School-Age Language Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 663</td>
<td>Voice Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 669</td>
<td>Cognitive-Communication Disorders</td>
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</tr>
<tr>
<td>CMDS 690</td>
<td>Dysphagia</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 696</td>
<td>Augmentative/ Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 699</td>
<td>Research Project ²</td>
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<tr>
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<tr>
<td>Summer</td>
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<tr>
<td>CMDS 667</td>
<td>Aphasia</td>
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<td>Year 2</td>
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<tr>
<td>Fall</td>
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<td>CMDS 694</td>
<td>Pediatric Feeding and Swallowing</td>
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<td>CMDS 658</td>
<td>Interprofessional Education and Practice</td>
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<td>CMDS 699</td>
<td>Research Project ³</td>
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<td>Spring</td>
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<td>CMDS 668</td>
<td>Professional Issues in Audiology and Speech Pathology</td>
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<td>CMDS 611</td>
<td>Practicum in Speech Pathology</td>
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<td>CMDS 610</td>
<td>Topics in Audiology and Aural Rehabilitation</td>
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<td>CMDS 699</td>
<td>Research Project ³</td>
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<td>Minimum Total Hours</td>
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<td>Electives</td>
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<tr>
<td>CMDS 606</td>
<td>CMDS Independent Study</td>
<td>1-5</td>
</tr>
<tr>
<td>CFCC Standard IV-A Coursework (As Needed)³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Students must enroll in CMDS 611 (Fall 1) if planning on completing a research project.
² All other students will enroll in CMDS 611 (Spring 1) if choosing the non-research project option.
³ CFCC Standard IV-A. The applicant must have demonstrated knowledge of the biological sciences, physical sciences, statistics (math-based), and the social-behavioral sciences.

Speech Language Pathology MS Degree - Core Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMDS 572</td>
<td>Anatomy and Physiology for Communication Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CMDS 570</td>
<td>Clinical Observation in Speech Pathology and Audiology</td>
<td>1</td>
</tr>
<tr>
<td>AUDI 605</td>
<td>Introduction to Audiological Techniques and Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 571</td>
<td>Special Topics in Psychology (undergraduate students only)¹</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 609</td>
<td>Topical Seminar in Psychology (graduate students only)¹</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMDS 564</td>
<td>Normal Speech and Language Development</td>
<td>4</td>
</tr>
<tr>
<td>CMDS 663</td>
<td>Clinical Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>CMDS 630</td>
<td>Aural Rehabilitation for the Speech-Language Pathologist</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMDS 606</td>
<td>CMDS Independent Study</td>
<td>1-5</td>
</tr>
<tr>
<td>CFCC Standard IV-A Coursework (As Needed)²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ This course will meet on the Belknap Campus twice weekly.
² CFCC Standard IV-A
The applicant must have demonstrated knowledge of the biological sciences, physical sciences, statistics (math-based), and the social-behavioral sciences.

Community Health (MEd)

Master of Education in Community Health (COMHMED)
Unit: College of Education and Human Development (GE) (http://louisville.edu/education)  
Department: Health and Sport Sciences (http://louisville.edu/education/departments/hss)  
Program Webpage: louisville.edu/education/degrees/med-ch

Program Information

This program has been suspended to further enrollments. No new applications will be accepted.

Students generally pursue careers at worksites (plan and implement wellness programs to keep employees healthy and maintain a safe work environment), medical services (develop, implement and evaluate...
The University of Louisville

Health promotion programs in hospitals, HMOs, acute care clinics and long-term facilities) and communities (assess needs for health promotion programs, and deliver education programs at various sites in the community, including voluntary health agencies and government-based service programs).

The goal of the health education program is the development and preparation of individuals to be future leaders in a variety of urban settings including public and private corporations and government agencies in the area of health and human performance.

**Admission Requirements**

*This program has been suspended to further enrollments. No new applications will be accepted.*

All candidates must meet the requirements for admission to certain specific programs offered by the College of Education and Human Development. All students applying for a master’s program in education must submit Graduate Record Examination (GRE) scores. Successful applicants have received a combined score of 293 on the verbal and quantitative sections of the GRE and a 4.0 on the Analytical section is required for this program. Some programs may require a higher GRE score. Exit Requirements: Minimum of 3.0 GPA, and two of the following: portfolio, internship, exit exam, research project or thesis.

The Community Health Admissions Screening Committee requires the following materials:

- Transcripts of all undergraduate and graduate work. Minimum cumulative grade point average (GPA) of 2.75 overall.
- GRE scores.
- Test of English as a Foreign Language (TOEFL) score for international students from countries where English is not the native language (students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement).
- Two letters of recommendation
- Formal Statement of Purpose

<table>
<thead>
<tr>
<th>Degree Requirements</th>
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</thead>
<tbody>
<tr>
<td><strong>Core Curriculum</strong></td>
</tr>
<tr>
<td>HSS 675</td>
</tr>
<tr>
<td>HSS 676</td>
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<tr>
<td>HSS 684</td>
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<tr>
<td>HSS 655</td>
</tr>
<tr>
<td>HSS 631</td>
</tr>
<tr>
<td><strong>Research Methods</strong></td>
</tr>
<tr>
<td>ELFH 600</td>
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<tr>
<td>HSS 604</td>
</tr>
<tr>
<td><strong>Internship/Practicum - Location Approved by Advisor</strong></td>
</tr>
<tr>
<td>HSS 692</td>
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<tr>
<td><strong>Electives - Courses approved by advisor</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
</tr>
</tbody>
</table>

**Exit Requirements**

Student must also satisfactorily complete an exit exam and submit a portfolio of all Hallmark Assessments and internship materials.

**Computer Engineering and Computer Science (MEng)**

*Master of Engineering in Computer Engineering and Computer Science (CECSMEN)*

Unit: Speed School of Engineering (http://louisville.edu/speed) (SP)

Department/Program Webpage: louisville.edu/speed/computer/

**Program Information**

**General Information**

The Bachelor of Science in Computer Engineering and Computer Science degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Computer Engineering and Computer Science degree. The Master of Engineering in Computer Engineering and Computer Science degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Computer Engineering and Computer Science MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Computer Engineering and Computer Science bachelor degree program at Speed School. Therefore, students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

**Master of Engineering Program Educational Objectives**

The purpose of the five-year Master of Engineering Program is to bring together the faculty, staff, and capital resources to meet the following program educational objectives:

1. Educate and train MEng graduates with the advanced level academic background and practical engineering experience necessary to function as computer engineering and computer science professionals in a modern, ever-changing world
2. Produce graduates who demonstrate competence by being selected for employment by industrial, academic, or government entities, or pursue further professional/graduate studies
3. Provide our graduates with the foundation for the development of a successful career and with the understanding that life-long learning is necessary to this development
4. Ensure that our graduates understand the broad social, ethical, and professional issues of contemporary engineering practice

**Master of Engineering Student Outcomes**

In order to achieve these objectives, the Master of Engineering has the following outcomes set for its graduates. Graduates will demonstrate:

1. An ability to apply knowledge of mathematics, science, and engineering in the field of computer engineering and computer science
2. An ability to design and conduct experiments, as well as to analyze and interpret data in the field of computer engineering and computer science
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and
sustainability in the field of computer engineering and computer science
4. An ability to function on multidisciplinary teams
5. An ability to identify, formulate and solve problems in the field of computer engineering and computer science
6. An understanding of professional and ethical responsibility in the field of computer engineering and computer science
7. An ability to communicate effectively
8. The broad education necessary to understand the impact of computer engineering and computer science in a global, economic, environmental, and societal context
9. A recognition of the need for and an ability to engage in life-long learning in the field of computer engineering and computer science
10. Knowledge of contemporary issues in the field of computer engineering and computer science
11. An ability to use the techniques, skills, and engineering tools for the practice of computer engineering and computer science

Residency
All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for MEng residency until the degree is awarded (i.e., the candidate must maintain continuous registration, including summer terms, in Graduate Studies). Failure to pay the MEng residency fee will be cause to cancel a student’s residency. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. In order to be restored to residency, the student must submit a new application, have the recommendation of the department chair, receive the approval of the Associate Dean and pay the fee for each of the semesters during which the residency was void.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.
2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms.

Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms. Any student who remains in academic probation for two consecutive terms may be considered for dismissal from the program.

3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.

4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.
5. A maximum of eight (8) hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

Degree Requirements
The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.
4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.
5. The MEng degree cannot be conferred prior to the BS degree.

Admission Standards
Since the Computer Engineering and Computer Science MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Computer Engineering and Computer Science bachelor degree program at Speed School.

The application form is available online at louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication.

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post conferral of their baccalaureate degree;
2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;
3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.
A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

**Program Requirements**

The Master of Engineering in Computer Engineering and Computer Science degree requires the following over and above the Bachelor of Science in Computer Engineering and Computer Science Degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 611</td>
<td>Computer Architecture</td>
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<tr>
<td>CECS/ECE 510</td>
<td>Computer Design</td>
<td>3</td>
</tr>
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<td>CECS 511</td>
<td>Computer Design Laboratory</td>
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</tr>
<tr>
<td>ECE 563</td>
<td>Experimental Design in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CECS 620</td>
<td>Combinatorial Optimization and Modern Heuristics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 622</td>
<td>Simulation and Modeling of Discrete Systems</td>
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<td>CECS 625</td>
<td>Parallel Programming</td>
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<td>CECS Electives $^{1,2}$</td>
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<tr>
<td>Technical Elective $^{1,3}$</td>
<td>CECS Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

**Thesis Option:**

| CECS 697 | Master of Engineering Thesis in Computer Engineering and Computer Science | 6     |

**Non-Thesis Option:**

| CECS 696 | CECS Project | 3     |
| CECS Elective $^{1,2}$ | CECS Elective | 9     |

Minimum Total Hours: 30

The Master of Engineering degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the Master of Engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.

A maximum of eight (8) credit hours of graduate-level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

**Academic Performance**

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing Section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director.

**Degree Requirements**

The following degree requirements are mandatory of all Master of Science candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Masters students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master's degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.

4. Student has six years after their admission to the MS program to complete their degree.

The requirements for the Master of Science degree are discussed in more detail in the Degree Requirements (p. 804) section of this catalog.

**Admission Standards**

The admission standards for the Master of Science program in Computer Science are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.

2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.

3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).

4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.

5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in a foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports).

   Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term unless approved by the program chair and the Speed School Associate Dean for Academic Affairs.

   Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School Associate Dean for Academic Affairs.

7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

**Program Requirements**

Remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background.

The minimum curricular requirements for the master’s program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MS in Computer Science Coursework</td>
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<tr>
<td>1. Foundations Course (see list below)</td>
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</tr>
<tr>
<td>2. Software Courses (see list below)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3. Analytic Courses (see list below)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>4. CECS Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>1. Thesis Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Non-Thesis Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. CECS 690 Master of Science Thesis in Computer Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. CECS 696 CECS Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. CECS Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

The Master of Science degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements and all academic work attempted in Graduate Studies.

1. One Foundations Course from the list below is required
2. Two Software Courses from the list below are required
3. Two Analytic Courses from the list below are required
4. Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis, are 600-level; at least 15 credit hours of coursework must be in CECS.
5. For the thesis option, a student is required to select both an approved MS thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in CECS 690.

**Approved Courses**

**Foundation Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 504</td>
<td>Automata Theory</td>
<td>3</td>
</tr>
<tr>
<td>CECS 619</td>
<td>Design and Analysis of Computer Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

**Software Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 516</td>
<td>Fundamentals of Computer Communications and Networks</td>
<td>3</td>
</tr>
<tr>
<td>CECS 535</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>CECS 545</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CECS 550</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CECS 625</td>
<td>Parallel Programming</td>
<td>3</td>
</tr>
<tr>
<td>CECS 629</td>
<td>Distributed System Design</td>
<td>3</td>
</tr>
<tr>
<td>CECS 630</td>
<td>Advanced Databases</td>
<td>3</td>
</tr>
<tr>
<td>CECS 640</td>
<td>Internet Application Design and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Analytic Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 506</td>
<td>Modeling and Analysis of Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 522</td>
<td>Performance Evaluation of Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 563</td>
<td>Experimental Design in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CECS 620</td>
<td>Combinatorial Optimization and Modern Heuristics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 622</td>
<td>Simulation and Modeling of Discrete Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
Computer Science and Engineering (PhD)

Doctor of Philosophy in Computer Science and Engineering (CSE PHD)
Unit: Speed School of Engineering (https://louisville.edu/speed) (GS) Department: Computer Science and Engineering
Program Webpage (http://louisville.edu/speed/computer)

Program Information

General Information
The PhD degree program is intended for persons having an accredited master’s and/or baccalaureate degree in computer engineering, computer science, or electrical engineering, but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background coursework.

Students interested in the PhD degree program should consult the Director of Graduate Studies in the Department of Computer Engineering and Computer Science.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director. Students who seek to return after such a period of time must apply for readmission by completing a University of Louisville graduate application. If admitted, the student will be subject to catalog requirements in effect at the time of readmission.

Degree Requirements
The award of a Doctor of Philosophy degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. The following degree requirements are mandatory of all doctoral candidates:

1. The Program of Study must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.
2. At least two years of study must be spent at the University of Louisville.
3. One year must be spent in full-time residency (a minimum of 18 credit hours within a 12-month period or four terms of continuous part-time enrollment).
4. The applicant for a Doctor of Philosophy degree must pass an oral and/or written qualifying examination.
5. Admission to candidacy must not be later than the end of the ninth month prior to the awarding of the degree. Students enter Doctoral Candidacy upon completion of all coursework, qualifying exams, required research credit hours and other co-curricular requirements. Students who are enrolled in Doctoral Candidacy are considered full-time students. Enrollment in Doctoral Candidacy status must be continuously maintained year round (i.e. Fall, Spring, and Summer) until the degree is awarded.
6. A dissertation is required of all candidates.
7. All candidates must pass a final oral examination. This is to be a defense of the dissertation and a demonstration of the candidate's mastery of his/her field.
8. Ordinarily, the equivalent of three years of full-time graduate study is a minimum. However, the candidate must complete all requirements for the degree within four calendar years after passing the qualifying examination.

The requirements for the Doctor of Philosophy degree are explained in more detail in the Degree Requirements section (p. 804) of this catalog.

Admission Standards
The admission standards for the PhD program in Computer Science and Engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.
3. The successful applicant will typically have an undergraduate grade point average of 3.00 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.
5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including demonstration of adequate background in foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports).
Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.

6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School Associate Dean for Academic Affairs.

7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

Program Requirements

Normally, it is expected that the student will complete a master’s degree before being admitted to the PhD Program. However, qualified applicants may be admitted directly to the doctoral program after receiving a baccalaureate degree. These students will be required to complete an additional 30 credit hours of coursework at the 500 and 600 level under an individual plan developed in conjunction with the department’s Director of Graduate Studies.

Also, remedial work may be specified for any applicant who, in the opinion of the faculty, do not have a sufficient background.

The minimum curricular requirements for the doctoral program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-Baccalaureate Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved Master’s Level Course Work</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>CECS Electives</td>
<td>18</td>
<td></td>
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<tr>
<td>CECS 799</td>
<td>Dissertation Research</td>
<td>9</td>
</tr>
<tr>
<td>CECS 795</td>
<td>CECS Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>59</td>
<td></td>
</tr>
</tbody>
</table>

Candidates for the Doctor of Philosophy degree must have a minimum final cumulative grade point average of 3.00 for all academic work attempted in Graduate Studies.

1 Master’s Level Course Work and/or CECS Electives must be chosen so that 18 credit hours of courses are taken in the core areas. Two courses are required in each of two core areas and one course in each of the remaining two core areas. The approved courses for the four core areas are listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 504</td>
<td>Automata Theory</td>
<td>3</td>
</tr>
<tr>
<td>CECS 516</td>
<td>Fundamentals of Computer Communications and Networks</td>
<td>3</td>
</tr>
<tr>
<td>CECS 530</td>
<td>Design of Compilers</td>
<td>3</td>
</tr>
<tr>
<td>CECS 545</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CECS 550</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CECS 608</td>
<td>Advanced Design of Operating Systems</td>
<td>3</td>
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</tbody>
</table>

Computer Hardware Engineering Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS/ECE 510</td>
<td>Computer Design</td>
<td>3</td>
</tr>
<tr>
<td>CECS 525/ ECE 516</td>
<td>Microcomputer Design</td>
<td>4</td>
</tr>
<tr>
<td>CECS 611</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ECE 515</td>
<td>Introduction to VLSI Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Computationally Intensive Applications Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 522</td>
<td>Performance Evaluation of Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 564</td>
<td>Introduction to Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CECS 609</td>
<td>Multimedia Processing</td>
<td>3</td>
</tr>
<tr>
<td>CECS 622</td>
<td>Simulation and Modeling of Discrete Systems</td>
<td>3</td>
</tr>
<tr>
<td>CECS 627</td>
<td>Digital Image Processing</td>
<td>3</td>
</tr>
<tr>
<td>CECS 628</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 660</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 520</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ECE 550</td>
<td>Communication and Modulation</td>
<td>3</td>
</tr>
<tr>
<td>ECE 560</td>
<td>Control Systems Principles</td>
<td>3</td>
</tr>
<tr>
<td>ECE 614</td>
<td>Deep Learning</td>
<td>3</td>
</tr>
<tr>
<td>ECE 619/ CECS 633</td>
<td>Computer Vision</td>
<td>3</td>
</tr>
<tr>
<td>ECE 620</td>
<td>Pattern Recognition and Machine Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>ECE 653</td>
<td>Digital Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECE 661</td>
<td>Sampled-Data Control Systems</td>
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</table>

Advanced Mathematics Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IE/CECS 563</td>
<td>Experimental Design in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CECS 620</td>
<td>Combinatorial Optimization and Modern Heuristics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 632</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>MATH 501</td>
<td>Introduction to Analysis I - CUE</td>
<td>3</td>
</tr>
<tr>
<td>MATH 560</td>
<td>Statistical Data Analysis - WR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 667</td>
<td>Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>MATH 681</td>
<td>Combinatorics and Graph Theory I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Master’s Level Course Work and/or CECS Electives must be chosen so that 18 credit hours of courses are taken in the core areas. Two courses are required in each of two core areas and one course in each of the remaining two core areas. The approved courses for the four core areas are listed below.
Counseling and Personnel Services (MEd)

Master of Education in Counseling and Personnel Services (CPSMED)
Unit: College of Education and Human Development (http://louisville.edu/education)
Department: Counseling and Human Development
Program Webpage: louisville.edu/education/degrees/med-cps

Program Information
The MEd in Counseling and Personnel Services is designed to prepare prospective professionals in a variety of counseling areas:

- Art Therapy
- Clinical Mental Health Counseling
- College Student Personnel
- Counseling Psychology
- School Counseling and Guidance.

Theory and practice are critically important components of the program. Students are required to pursue a logical sequence of study that permits a well-balanced preparation in theory, research, and field experience.

Mission
The mission of the M.Ed. in Counseling and Personnel Services is to prepare scholar practitioners for counseling roles in which they contribute to society in a variety of professional positions. Our graduates support principles of social justice, fairness, and equity in their work; proactively promote the welfare of those they serve; and engage in a lifelong process of educational and professional renewal.

Admission Requirements
Prospective students must submit an online application for admission (https://louisville.edu/graduate/apply) to the School of Interdisciplinary and Graduate Studies.

- The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution. Minimum overall GPA of 2.75, or 2.75 on the last 60 undergraduate hours, is required. Applicants are required to submit all official transcripts from all colleges attended as verification of coursework and degree(s). Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org).

Please note that transcript evaluations can sometimes take several weeks.

Please have transcripts sent to:
School of Interdisciplinary and Graduate Studies
University of Louisville
Louisville, KY 40292

If transcripts are sent electronically, please have them sent to the following e-mail: gradadm@louisville.edu

- Each applicant is required to submit at least (2) letters of recommendation from individuals who can speak to the applicant’s academic and/or professional capabilities and potential. Please list the email addresses for two recommenders in the online application. Recommenders will receive instructions and forms that they will complete online.
- Prospective students must submit a professional goal statement [PDF] (http://louisville.edu/education/degrees/forms/med-cps-professional-goal-statement.pdf) not to exceed 750 words. Please upload the cover sheet (see link) along with your goal statement, to the online application.
- The Test of English as a Foreign Language (TOEFL) is required of all applicants from countries in which English is not the native language. Students holding a baccalaureate or advanced degree from an accredited institution in the United States are exempt from this requirement.
- Submission of GRE scores is required. Students may be admitted based upon the strength of the other components in their application package (undergraduate and graduate GPAs, letters of recommendation, professional goal statement, and work experience). Please note: when submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838.

Applicants are encouraged to visit the website of the specialization area of interest below for further information about suggested GPA and GRE score requirements, application deadlines, and other specific information related to that specialization area.

- Art Therapy (http://louisville.edu/education/degrees/med-cps-at)
- Clinical Mental Health Counseling (http://louisville.edu/education/degrees/med-cps-mhc)
- College Student Personnel (http://louisville.edu/education/degrees/med-cps-csp)
- Counseling Psychology (http://louisville.edu/education/degrees/med-cps-cp)
- School Counseling (http://louisville.edu/education/degrees/med-cps-sc)

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 600</td>
<td>Introduction to Research Methods and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 540</td>
<td>Evaluation and Measurement in Education</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 605</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 619</td>
<td>Empirical and Theoretical Foundations of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 629</td>
<td>Theories and Techniques of Counseling and Psychotherapy (OR)</td>
<td>3</td>
</tr>
</tbody>
</table>
Clinical Mental Health Counseling

General Requirement: Undergraduate prerequisite: Course in abnormal psychology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 621</td>
<td>Differential Diagnosis and Treatment in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 626</td>
<td>Consultation</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 640</td>
<td>Assessment Methods for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 682</td>
<td>Internship in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 682</td>
<td>Internship in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 601</td>
<td>Introduction to Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 639</td>
<td>Prevention &amp; Treatment of Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours

42-60

CACREP and Kentucky Board of Licensed Professional Counselors

Curriculum Guidelines:

CACREP requires that 600 hours be completed during the internships.

1. The helping relationship, including counseling theory and practice
2. Human growth and development
3. Lifestyle and career development
4. Group dynamics, process, counseling, and consulting
5. Assessment, appraisal, and testing of individuals
6. Social and cultural foundations, including multicultural issues
7. Principles of etiology, diagnosis, treatment planning, and prevention of mental and emotional disorders and dysfunctional behavior
8. Research and evaluation
9. Professional orientation and ethics

Degree assessment: All program coursework must be completed with a 3.0 cumulative GPA.

School Counseling (P-12)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 624</td>
<td>Foundations of School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 626</td>
<td>Consultation</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 639</td>
<td>Prevention &amp; Treatment of Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 640</td>
<td>Assessment Methods for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 684</td>
<td>Internship in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 684</td>
<td>Internship in School Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours

18

Notes: ECPY 674 Practicum in School Counseling must be applied for by March 1 for Fall term and October 1 for Spring term.

1. Students must earn at least a B in ECPY 630 to be eligible to enroll in ECPY 674 Practicum in School Counseling
2. For school counseling certification, a grade of “B” or better is required in ECPY 674 and ECPY 684
3. All students must have liability insurance prior to taking practicum.
4. At any point after admission, the faculty reserve the right to review a student's fitness on the basis of personal characteristics, for continuing in the counseling or student personnel program. Such a review shall be initiated upon written recommendation of two faculty members and shall consist of a review of the student's academic result in a recommendation to the Dean for (1) continuation of the student in the program, (2) continuation for a specified provisional period with specific conditions for continuation thereafter, or (3) dismissal from the program.
5. The program requires the acceptable completion of a program portfolio.
6. The CEHD will be able to recommend the Provisional license and verify completion of coursework for the Standard license, for program completers. In addition, program completers must document at least one year of experience to the KY Education Professional Standards Board to be eligible for the Standard license.
7. Kentucky certified teachers who hold a Rank II will be eligible for a Rank I upon completion of this program.
8. This program must be totally completed and degree awarded to apply for a rank change with the state of Kentucky.

Exit Requirements: To complete the program, students must have a minimum 3.0 GPA. No credit shall be accepted for carrying a grade lower than “C.” This program requires the acceptable completion of a program portfolio.

College Student Personnel

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 681</td>
<td>Internship in College Student Personnel Services</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 682</td>
<td>The Organization and Administration of Higher Education Institutions</td>
<td>3</td>
</tr>
</tbody>
</table>
must do so within the first year of study.

prerequisites of 15 hours in Psychology and 18 credit hours in Studio Art.

Students admitted to the Art Therapy Program who have not completed hours in studio art and 15 credit hours in psychology.

General Requirement:

Art Therapy Concentration (24 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 611</td>
<td>Learning Systems: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 621</td>
<td>Differential Diagnosis and Treatment in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 648</td>
<td>Psychological Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 649</td>
<td>Psychological Assessment II</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 673</td>
<td>Practicum in Counseling Psychology ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 683</td>
<td>Internship in Counseling Psychology ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 775</td>
<td>Biological Bases of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics</td>
<td>3</td>
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</table>

Professional Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 653</td>
<td>Grief and Medical Counseling in Art Therapy</td>
<td></td>
</tr>
<tr>
<td>ECPY 655</td>
<td>Art for Children with Special Needs</td>
<td></td>
</tr>
<tr>
<td>ECPY 694</td>
<td>Graduate Seminar in Educational and Counseling Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

Degree Assessment: All program coursework must be completed within the first year of study.

Degree Assessment: All program coursework must be completed with a 3.0 cumulative GPA.

### Counseling Psychology

**Code** | **Title** | **Hours**
---|---|---
**Counseling Psychology Concentration (24 hours)** | | |
ECPY 611 | Learning Systems: Theory and Practice | 3 |
ECPY 621 | Differential Diagnosis and Treatment in Counseling | 3 |
ECPY 648 | Psychological Assessment I | 3 |
ECPY 649 | Psychological Assessment II | 3 |
ECPY 673 | Practicum in Counseling Psychology ¹ | 3 |
ECPY 683 | Internship in Counseling Psychology ¹ | 3 |
ECPY 775 | Biological Bases of Behavior | 3 |
ELFH 601 | Applied Statistics | 3 |
| **Professional Electives** | | 6 |
| **Minimum Total Hours** | | 30 |

**Degree Assessment:** All program coursework must be completed with a 3.0 cumulative GPA.

**Footnote:** ¹ 600 hours of field placement are required during the combination of ECPY 673, ECPY 680, and ECPY 683; 6 full psychological assessments are required during the combination of ECPY 673, ECPY 680, and ECPY 683.

### Art Therapy

**General Requirement:** Undergraduate prerequisite includes 18 credit hours in studio art and 15 credit hours in psychology.

Students admitted to the Art Therapy Program who have not completed prerequisites of 15 hours in Psychology and 18 credit hours in Studio Art must do so within the first year of study.

**Code** | **Title** | **Hours**
---|---|---
**Art Therapy Concentration (24 hours)** | | |
ECPY 621 | Differential Diagnosis and Treatment in Counseling | 3 |
ECPY 632 | Clinical Art Therapy I: Theories | 3 |
ECPY 633 | Clinical Art Therapy II: Assessment and Practice | 3 |
ECPY 638 | Group Art Therapy Techniques | 3 |
ECPY 677 | Research in Art Therapy and Counseling | 3 |
ECPY 641 | Applied Methods in Art Therapy | 3 |
ECPY 643 | Field Studies in Art Therapy | 3 |
ECPY 676 | Practicum in Art Therapy ¹ | 3 |
| **Professional Electives** | | 6 |
| from the educational areas designated in Curriculum Guidelines for LPAT and ATR, including but not limited to: | | |
ECPY 653 | Grief and Medical Counseling in Art Therapy | | |
ECPY 655 | Art for Children with Special Needs | | |
ECPY 694 | Graduate Seminar in Educational and Counseling Psychology | | |
| **Minimum Total Hours** | | 30 |

**Degree Assessment:** All program coursework must be completed within the first year of study.

**Footnote:** ¹ At least 700 hours of field placement must be completed during field studies and two practicums. Ten hours per week are required during field studies. No less than 20 hours per week are required during the two practicums.

**Degree Assessment:** All program coursework must be completed with a 3.0 cumulative GPA.

### American Art Therapy Associate (AATA) Educational Standards

1. History and theory of art therapy
2. Techniques of practice in art therapy
3. Applications of art therapy with people in different treatment settings
4. Group work
5. Art therapy assessment
6. Ethical and legal issues of art therapy practice
7. Standards of practice in art therapy
8. Cultural and social diversity

### Kentucky Board of Licensed Professional Counselors Curriculum Guidelines: ³

1. The helping relationship, including counseling theory and practice
2. Human growth and development
3. Lifestyle and career development
4. Group dynamics, process, counseling, and consulting
5. Assessment, appraisal, and testing of individuals
6. Social and cultural foundations, including multicultural issues
7. Principles of etiology, diagnosis, treatment planning, and prevention of mental and emotional disorders and dysfunctional behavior
8. Research and evaluation
9. Professional orientation and ethics.

### Counseling and Personnel Services (PhD)

**Doctor of Philosophy of Education Counseling and Personnel Services (CPSPHD)**

Unit: College of Education and Human Development ([http://louisville.edu/education](http://louisville.edu/education)) (GE)
Department: Counseling & Human Development ([http://louisville.edu/education/departments/ecpy](http://louisville.edu/education/departments/ecpy))
Program Webpage: louisville.edu/education/degrees/phd-cps

### Program Information

The Doctor of Philosophy in Counseling and Personnel Services encompasses four specialization areas:

- College Student Personnel
- Counseling Psychology
- Counselor Education and Supervision
- Educational Psychology, Measurement, and Evaluation

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field/discipline. All candidates for a doctoral degree in the College of Education and Human Development must successfully complete qualifying exams and a dissertation/professional portfolio that clearly indicates the candidate has mastered and can exhibit/articulate the content knowledge, skills, and dispositions.
specific to their discipline, and can utilize appropriate research methodologies to contribute to the body of knowledge in their field.

**Distinctive Characteristics of Doctoral Programs in the College of Education and Human Development**

**Social Justice and Equity**
Doctoral students in our program build experience and expertise in the issues of social justice and equity which aligns with our metropolitan mission and focus on student achievement.

**Leadership**
Our doctoral students gain expertise in supervising and leading others to achieve organizational goals and missions, managing complex systems, addressing administrative issues and procedures, conducting research to enhance leadership and teaching others about the art of organizational leadership.

**Practical Experience**
The doctoral program contains practicums, internships, or embedded field experience that aligns with program and career goals. These mentored experiences may include teaching, research, administration or other appropriate areas.

**Scholarship/Research**
An emphasis on scholarship includes experience and mentorship in ethics, publications, presentation, grantsmanship, and other forms of creative activity. The research component is characterized by the development of vertical research teams: senior faculty, junior faculty, doctoral students, master’s students, and in some programs, undergraduate students, working together on research projects and research areas. These may be bolstered by partnerships with local school districts, businesses, or community agencies.

**Admission Requirements**
Prospective students must submit an online application for admission (http://louisville.edu/graduate/apply) to the School of Interdisciplinary and Graduate Studies. Additional requirements are listed below:

- A master’s degree, or its equivalent in a related field, is typically required. However, highly motivated applicants with a strong undergraduate record and a Bachelors degree may also be considered for admission. Applicants are required to submit official transcripts from all higher education institutions attended.
- Three letters of recommendation from individuals who can speak to the applicant’s academic and/or professional capabilities and potential.
- Test scores from the Graduate Record Exam General Test – Verbal, Quantitative, and Analytical Writing are required. Please note: When submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838.
- The Test of English as a Foreign Language (TOEFL) is required of all students who completed a degree outside the United States from countries in which English is not the native language. Students holding a baccalaureate or advanced degree from an accredited institution in the United States are exempt from this requirement.
- A statement of professional goals appropriate to pursuing a PhD in the specific area of specialization is required. Applicants should submit a personal statement of approximately 1,500 words outlining their professional goals and how their research and professional interests might align with those of faculty in the department.
- An updated curriculum vitae (CV) or resume

Each application will be evaluated to determine the strength of all components (GRE, undergraduate and graduate GPAs, letters of recommendation, professional goal statement, and work experience) as predictors of successful completion of the program. Applicants are encouraged to visit the website of the specialization area of interest for further information about suggested GPA and GRE score requirements, application deadlines, and other specific information related to that specialization area.

- College Student Personnel
- Counseling Psychology
- Counselor Education and Supervision
- Educational Psychology, Measurement, and Evaluation

**Program Requirements**
The Doctor of Philosophy in Counseling and Personnel Services encompasses four specialization areas. For specific coursework, see Specialization Requirements section.

- College Student Personnel
- Counseling Psychology
- Counselor Education and Supervision
- Educational Psychology, Measurement, and Evaluation

All ECPY doctoral programs require courses in the following areas:

- **Specialty** – Specialty courses are designed to prepare the student for work within their selected professional field.
- **Research Methodology** – The research component prepares students to examine research within the professional area as well as contribute to the existing research.
- **Electives** – Elective courses are selected in concert with advisor and program committee with consideration to the student’s background, interests, and professional goals.

Each doctoral program will have additional requirements related to their program of study.

All candidates for a doctoral degree must successfully complete qualifying exams and a dissertation/professional portfolio that clearly indicates the candidate has mastered and can exhibit/articulate the content knowledge, skills and dispositions specific to their discipline, and can utilize appropriate research methodologies to contribute to the body of knowledge in their field.

**Specialization Requirements**

**Specialization in Counselor Education and Supervision**

Master’s Degree prerequisite + 60 credit hours minimum: The Student and Committee must develop courses, programs and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the Committee can assess.
Specialization in Counseling Psychology

The Student and Committee must develop courses, programs, and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the Committee can assess.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECPY 623</td>
<td>Helping Skills for Student Affairs Professionals</td>
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<tr>
<td>ECPY 670</td>
<td>Career Counseling</td>
<td></td>
</tr>
<tr>
<td>ECPY 660</td>
<td>Introduction to Student Personnel Work</td>
<td></td>
</tr>
<tr>
<td>ECPY 662</td>
<td>Student Affairs Programs, Policies, and Practices</td>
<td></td>
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<tr>
<td>ECPY 664</td>
<td>College Student Sub-Cultures</td>
<td></td>
</tr>
<tr>
<td>ECPY 761</td>
<td>Program Development &amp; Evaluation in Student Affairs</td>
<td></td>
</tr>
<tr>
<td>ECPY 793</td>
<td>Doctoral Seminar in Educational and Counseling Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Specialization in College Student Personnel

The Student and Committee must develop courses, programs, and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the Committee can assess.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ECPY 661</td>
<td>Theories of College Student Development</td>
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<tr>
<td>ECPY 663</td>
<td>Multicultural and Diversity Issues</td>
<td></td>
</tr>
<tr>
<td>ELFH 682</td>
<td>The Organization and Administration of Higher Educational Institutions</td>
<td></td>
</tr>
<tr>
<td>ECPY 681</td>
<td>Internship in College Student Personnel Services</td>
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</tr>
<tr>
<td>ECPY 782</td>
<td>Doctoral Internship</td>
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Research Methodology

Selected with Program Committee Approval

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics</td>
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<tr>
<td>ECPY 540</td>
<td>Evaluation and Measurement in Education (or equivalent)</td>
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</tr>
<tr>
<td>ECPY 793</td>
<td>Doctoral Seminar in Educational and Counseling Psychology (Advanced Psychotherapy Research and Practice, or equivalent)</td>
<td></td>
</tr>
<tr>
<td>ECPY 789</td>
<td>Advanced Research Design (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>ECPY 700</td>
<td>Supervised Research in Educational and Counseling Psychology</td>
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</tr>
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</table>

Minimum Total Hours

93
Specialization in Educational Psychology, Measurement, and Evaluation

The Educational Psychology, Measurement, and Evaluation (EPME) specialization requires a minimum of 90 graduate credit hours distributed in the following areas of study: specialty components, research methodology, and electives. Equivalent courses taken in a master’s program may be substituted for required courses with advisor and program committee approval.

At least 45 of the 90 hours must be earned at UofL. These 45 hours include 18 credit hours fulfilling residency and 12 credit hours required for dissertation research.

The Student and Committee must develop courses, programs and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the Committee can assess.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Specialty Components</td>
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<tr>
<td>EPME Core (all required)</td>
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<tr>
<td>ECPY 605 Human Development</td>
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<tr>
<td>ECPY 701 Doctoral Professional Seminar in Educational Psychology, Measurement, and Evaluation</td>
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<tr>
<td>ECPY 710 Social Ecology &amp; Social Behavior</td>
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<tr>
<td>ECPY 712 Advanced Issues in Human Development</td>
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<tr>
<td>ECPY 775 Biological Bases of Behavior</td>
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<tr>
<td>Research Methodology</td>
<td>36-42</td>
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</tr>
<tr>
<td>Selected with Program Committee Approval</td>
<td>(36 credit hours minimum, 42 credit hours maximum)</td>
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<tr>
<td>ELFH 701 Intermediate Applied Statistics</td>
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<tr>
<td>ELFH 702 Applied Multiple Regression</td>
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<td>ELFH 703 Multivariate Educational Statistics</td>
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<tr>
<td>ELFH 704 Qualitative Field Research Methods</td>
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<td>ECPY 745 Systematic Reviewing and Meta-Analysis</td>
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<tr>
<td>ECPY 740 Psychometrics and Affective Instrument Development</td>
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<td>ECPY 746 Secondary Data Analysis</td>
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<td>ELFH 764 Structural Equation Modeling</td>
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<td>ELFH 765 Hierarchical Linear Modeling</td>
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<td>ELFH 789 Advanced Research Design</td>
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<td>ELFH 795 Doctoral Research</td>
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<tr>
<td>Electives</td>
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<td>Selected with Program Committee Approval</td>
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<tr>
<td>CECS 630 Advanced Databases</td>
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<td>CECS 632 Data Mining</td>
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<tr>
<td>ECPY 540 Evaluation and Measurement in Education</td>
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<tr>
<td>ECPY 611 Learning Systems: Theory and Practice</td>
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<tr>
<td>ECPY 631 Adolescence</td>
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<tr>
<td>ECPY 793 Doctoral Seminar in Educational and Counseling Psychology</td>
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<td>ECPY 797 Internship in Educational Psychology, Measurement, and Evaluation</td>
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<tr>
<td>EDSP 669 Single Subject Research Methods and Designs</td>
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</tbody>
</table>

Minimum Total Hours 90

1 May be taken up to 3 times for a maximum of 3 credit hours.
2 May be taken for a maximum of 3 credit hours.

Criminal Justice (MS)

Master of Science in Criminal Justice (JA MS)
Unit: College of Arts and Sciences (GA) (http://louisville.edu/artsandsciences)
Department: Criminal Justice (http://louisville.edu/justice/graduate-degree-programs/master-of-science-in-criminal-justice)
Program Webpage (https://louisville.edu/justice)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-science-in-criminal-justice).

The goals of the Department of Criminal Justice are for students to achieve a sound liberal arts education and a specialized understanding of the criminal justice system, criminal behavior, legal processes and the relationship of these phenomena to society.

Graduate studies in the Department of Criminal Justice provide students with advanced social and behavioral science skills as well as a detailed and thorough understanding of crime, criminal justice and related processes. Graduates of this program are prepared to continue advanced studies in criminal justice or other social sciences and to assume mid and upper-level leadership positions within criminal justice programs and agencies.

The interdisciplinary nature of the program maintains the dynamic posture that allowed this crime-related discipline to emerge and to mature quickly and successfully. Graduate students are given latitude in choosing elective courses in the Master of Science in Criminal Justice. Elective courses related to the student’s program of study are selected
from the resources of the entire University. Courses in social work, public administration, law, business, and the various departments of the College of Arts and Sciences are possible electives that the student and his or her advisor may consider. With proper selection, the electives can complement the core criminal justice courses and produce a balanced, interdisciplinary program which is tailored to meet specific professional and career goals.

The combination of the degree programs and the Southern Police Institute makes the program in Criminal Justice a unique blend of theory and practice. The Southern Police Institute is one of the oldest, most respected police management and administration educational programs in the United States.

Our programs are offered in two formats:

• evening courses on campus, and
• on-line via the internet

**General Requirements**

The general requirements for the Master of Science degree in Criminal Justice are the completion of at least 36 graduate credit hours. The completion of these credit hours may include either thesis or non-thesis option. The thesis option requires the completion of 30 semester hours of graduate level courses and a thesis for a total of 36 credit hours. The non-thesis professional paper option requires the completion of 33 semester hours of graduate courses plus a professional paper for a total of 36 credit hours. A cumulative 3.0 grade point average must be maintained for all graduate coursework, grades of “D” must be repeated. Students are advised to complete the Criminal Justice core courses prior to electives. Core or specific courses required for graduation total 15 credit hours with the remaining courses being electives. The composition of the list of elective courses will vary from student to student depending on the student’s undergraduate major, aspirations and background. Electives outside of our department must have approval from the Director of Graduate Studies.

The degree is offered in two formats, our traditional on-campus classes and also online. Students interested in either format should see the department website (http://louisville.edu/justice/graduate-degree-program) for more information.

Students may choose either format or a combination of both methods of delivery.

**Accelerated BS-MS in Criminal Justice**

The Accelerated BS-MS degree program in Criminal Justice is designed to allow an undergraduate student to earn graduate hours in Criminal Justice during Senior year. Students will be allowed to earn up to 9 hours that can be applied to both their undergraduate degree (BS) and their graduate degree (MS) in Criminal Justice.

These students could enroll in a combination of the following core courses from the MS program in Criminal Justice:

• CJ 621 The Criminal Justice System
• CJ 643 Theories of Crime and Delinquency
• CJ 649 Applied Statistics in Criminal Justice
• CJ 650 Research Methods

Students in the Accelerated BS-MS program in Criminal Justice may only apply their graduate credits earned as an undergraduate at UofL toward the degree program.

Students must apply during the first or second semester of the Junior year (usually when they have earned between 70-80 hours). Applicants must have at least a 3.0 GPA at the time of application.

**Admission Requirements**

Anyone seeking admission to the Master of Science in Criminal Justice degree program must submit an application to the School of Interdisciplinary and Graduate Studies that includes the following:

• Transcripts of all undergraduate and graduate work completed. The minimum requirement for admission is the Baccalaureate degree or its equivalent.
• Two letters of recommendation from individuals who can speak to the applicant’s academic or professional capabilities.
• Scores on the General Test Section of the Graduate Record Examination (GRE).
• An original essay identifying the applicant’s background, professional interests and goals. The essay should be 300-500 words and should allow the faculty to better understand the applicant’s motivation and the potential for graduate work.
• Completed application to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, the University of Louisville at louisville.edu/graduate/apply/.
• Those applicants whose native language is not English and who do not hold a degree from a university where the language of instruction is English must also submit scores from the Test of English as a Foreign Language (TOEFL), with a minimum score of 80 on the Internet-based test (iBT) or 213 paper based test (PBT) or 550 (old test).

The Department of Criminal Justice is committed to providing an opportunity to a diverse range of students. The Department of Criminal Justice has adopted the Council of Graduate Schools recommendation for a holistic approach to our admission criteria. Successful applicants will typically have strong scores on the standardized tests, a strong undergraduate record, and excellent letters of recommendation that speak to the nominee’s scholarly ability and potential to succeed in a doctoral program. However, candidates may have other documented strengths that speak to the potential for success as evidenced by: prior research experience; exceptional community engagement or service; leadership experience; evidence of creativity or resilience; unique experiences or background that will contribute to our program.

The holistic review of applications allows our faculty to select the best students who fit the research areas offered within the department. Application information that highly influences the decision to offer admission includes the previous institution attended, research interests, grade point average, GRE scores, letters of recommendation, personal statements and resumes, and the experience, background or qualities that make the applicant eligible for admission.

**Degree Requirements**

A cumulative 3.0 grade point average must be maintained for all graduate coursework, grades of “D” must be repeated.
Students are advised to complete the Criminal Justice core courses prior to electives. Core or specific courses required for graduation total 15 credit hours with the remaining courses being electives or research.

**Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 621</td>
<td>The Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ 625</td>
<td>Legal Aspects of Criminal Justice Management</td>
<td>3</td>
</tr>
<tr>
<td>CJ 643</td>
<td>Theories of Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJ 649</td>
<td>Applied Statistics in Criminal Justice</td>
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</tr>
<tr>
<td>CJ 650</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Criminal Justice Electives - see list below</td>
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</tr>
<tr>
<td>CJ 699</td>
<td>Thesis</td>
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Minimum Total Hours 36

**Professional Paper Option**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 621</td>
<td>The Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ 625</td>
<td>Legal Aspects of Criminal Justice Management</td>
<td>3</td>
</tr>
<tr>
<td>CJ 643</td>
<td>Theories of Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJ 649</td>
<td>Applied Statistics in Criminal Justice</td>
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</tr>
<tr>
<td>CJ 650</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>Criminal Justice Electives - see list below</td>
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<tr>
<td>CJ 698</td>
<td>Professional Paper</td>
<td>3</td>
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</table>

Minimum Total Hours 36

**List of Approved Criminal Justice Electives - A minimum of 3 hours must be 600+ level**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CJ 500</td>
<td>Crime and Criminal Justice in the Cinema</td>
<td>3</td>
</tr>
<tr>
<td>CJ 505</td>
<td>International Terrorism</td>
<td>3</td>
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<tr>
<td>CJ 507</td>
<td>Crime Prevention Through Environmental Design</td>
<td>3</td>
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<tr>
<td>CJ 509</td>
<td>Crime Analysis</td>
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<tr>
<td>CJ 516</td>
<td>Juvenile Justice Issues</td>
<td>3</td>
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<tr>
<td>CJ 517</td>
<td>Gangs in America</td>
<td>3</td>
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<tr>
<td>CJ 519</td>
<td>Domestic and Family Violence</td>
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</tr>
<tr>
<td>CJ 520</td>
<td>Capital Punishment - WR</td>
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<tr>
<td>CJ 521</td>
<td>White Collar Crime - WR</td>
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<tr>
<td>CJ 522</td>
<td>Serial Murder</td>
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<td>CJ 523</td>
<td>Race and Gender Issues in Criminal Justice - WR</td>
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</tr>
<tr>
<td>CJ 530</td>
<td>Intro to Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>CJ 531</td>
<td>Covert Operations in Policing</td>
<td>3</td>
</tr>
<tr>
<td>CJ 576</td>
<td>Managing Organizational Performance</td>
<td>3</td>
</tr>
<tr>
<td>CJ 578</td>
<td>Criminal Justice Leadership - WR</td>
<td>3</td>
</tr>
<tr>
<td>CJ 580</td>
<td>International Service Learning: Criminal Justice Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ 596</td>
<td>Seminar in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 597</td>
<td>Ethics in Criminal Justice - WR</td>
<td>3</td>
</tr>
<tr>
<td>CJ 602</td>
<td>Criminal Justice History</td>
<td>3</td>
</tr>
<tr>
<td>CJ 605</td>
<td>Police and Society</td>
<td>3</td>
</tr>
<tr>
<td>CJ 606</td>
<td>Personnel Management in the Criminal Justice System</td>
<td>3</td>
</tr>
</tbody>
</table>

**Criminal Justice (PhD)**

**Doctor of Philosophy in Criminal Justice (JA PHD)**

Unit: College of Arts and Sciences (GA)
Department: Criminal Justice
Program Webpage: louisville.edu/justice/

**Program Information**

The Department of Criminal Justice offers a Doctor of Philosophy in Criminal Justice. The PhD in Criminal Justice is a degree that prepares graduates for careers in academic (e.g., teaching and research) as well as public sector (e.g., research, policy analysis and development, planning, program development and evaluation) organizations.

The program consists of a core curriculum and electives that students may use to develop their particular areas of specialization. The core provides a broad orientation and the electives enable students to develop expertise in a particular field. The curriculum includes 54 credit hours: 18 credit hours of core courses, 18 credit hours of specialization courses, 6 credit hours of qualifying project, and 12 credit hours of dissertation research. Students qualify for official candidacy to the PhD by satisfactorily completing all course work and the qualifying project.

**Admission Requirements**

- Completed application form
- Transcripts of previous undergraduate and graduate study
- Graduate Record Examination (GRE) scores
- Three letters of recommendation
- Personal statement
- Writing sample
- Curriculum vitae (CV) or resume

Additionally, applicants must show evidence, on their transcript, of the completion of both graduate-level statistics and research methods courses. The Department of Criminal Justice has adopted the Council of Graduate Schools recommendation for a holistic approach to our admission criteria. Successful applicants will typically have strong scores on the standardized tests, a strong undergraduate and master’s
degree record, and excellent letters of recommendation that speak to the nominee's scholarly ability and potential to succeed in a doctoral program. However, candidates may have other documented strengths that speak to the potential for success as evidenced by: prior research experience; exceptional community engagement or service; leadership experience; evidence of creativity or resilience; unique experiences or background that will contribute to our program. The holistic review of applications allows our faculty to select the students who best fit the research areas offered within the department.

Those applicants whose native language is not English and who do not hold a degree from a university where the language of instruction is English must also submit scores from the Test of English as a Foreign Language (TOEFL), with a minimum score of 80 on the Internet-based test (iBT) or 213 paper-based test (PBT) or 550 (old test).

Both full and part-time study is permitted. Part-time students are required to meet residency requirements consisting of 4 continuous semesters of enrollment and participation in departmental activities offered to meet the need for scholarly integration and academic immersion in the program.

Degree Requirements

Criminal Justice Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 745</td>
<td>Advanced Criminal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CJ 748</td>
<td>Seminar in Criminal Justice Program Planning &amp; Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CJ 749</td>
<td>Advanced Statistical Analysis in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 750</td>
<td>Field Research in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 751</td>
<td>Advanced Statistical Computer Applications for Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 752</td>
<td>Advanced Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 759</td>
<td>Criminal Justice Qualifying Project</td>
<td>6</td>
</tr>
<tr>
<td>CJ 799</td>
<td>Dissertation Research in Criminal Justice</td>
<td>12</td>
</tr>
<tr>
<td>Electives ¹</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

¹ Electives outside the department must be approved by the Director of Graduate Studies

Criminal Justice Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 602</td>
<td>Criminal Justice History</td>
<td>3</td>
</tr>
<tr>
<td>CJ 605</td>
<td>Police and Society</td>
<td>3</td>
</tr>
<tr>
<td>CJ 606</td>
<td>Personnel Management in the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ 607</td>
<td>Seminar in Law and Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 609</td>
<td>Economic Analysis of Crime</td>
<td>3</td>
</tr>
<tr>
<td>CJ 610</td>
<td>Theoretical Foundation of Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ 611</td>
<td>Critical Issues in Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ 612</td>
<td>Criminal Justice Administration: Police</td>
<td>3</td>
</tr>
<tr>
<td>CJ 613</td>
<td>Advanced Comparative Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 614</td>
<td>Seminar in Policing</td>
<td>3</td>
</tr>
<tr>
<td>CJ 626</td>
<td>Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>CJ 627</td>
<td>Computer and Cyber Crime</td>
<td>3</td>
</tr>
<tr>
<td>CJ 630</td>
<td>Critical Infrastructure Protection and Resilience</td>
<td>3</td>
</tr>
</tbody>
</table>

Curriculum and Instruction (PhD)

Doctor of Philosophy in Curriculum and Instruction (C&I PhD)

Unit: College of Education and Human Development (GE)
Department: Early Childhood and Elementary Education, Middle and Secondary Education, and Special Education
Program Webpage: louisville.edu/education/degrees/phd-ci

Program Information

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field/discipline. All candidates for a doctoral degree in the College of Education and Human Development must successfully complete qualifying exams and a dissertation/professional portfolio that clearly indicates the candidate has mastered and can exhibit/articulate the content knowledge, skills, and dispositions specific to their discipline and can utilize appropriate research methodologies to contribute to the body of knowledge in their field.

Areas of Emphasis within the Doctoral Program in Curriculum and Instruction

A master's degree in a related field is a required prerequisite to the Doctoral Program in Curriculum and Instruction. All students must meet competencies in research, teaching and teacher education, and stewardship of the profession. Students also choose one of the following areas of emphasis and develop knowledge specific to their discipline.

- The Languages, Literacies, Cultures, and Communities (L2C2) emphasis operates on the belief that languages, literacies, cultures, and communities are powerful, transformative, political, and multimodal. Faculty are committed to creating opportunities to think and investigate teaching and learning across the lifespan (both in and out of school settings) from a critical sociocultural perspective.

The L2C2 emphasis provides a wide variety of courses and experiences focused on theory, research, equity, and practice related to identities, diversity, oral and written language, and culture. This includes the study of reading and writing processes, culturally sustaining pedagogies, digital literacies, early childhood education, and discourse analysis, among many.

- The Science, Technology, Engineering, and Mathematics (STEM) program emphasis offers a wide variety of courses and experiences focused on theory, research, equity, and practice in STEM education.

By studying and engaging in research and teaching with nationally-recognized leaders in mathematics or science education, students develop expertise in 1) how P-20 students think and learn, 2) how educators facilitate that learning, and 3) how to conduct scholarly investigations to answer important STEM education questions.
The Special Education emphasis adheres to the principle of evidence-based practice. Faculty believe that all students can learn, regardless of ability or disability, and practice must be grounded in the best available scientific evidence.

Students in the Special Education emphasis will develop skills in generating new knowledge through conducting research so that they can add to the evidence base. They will also enhance their ability to synthesize existing evidence and translate research into practice by teaching preservice teachers, providing professional development in schools, and authoring practitioner-focused publications.

**Distinctive Characteristics of Doctoral Programs in the College of Education and Human Development**

**Social Justice and Equity**

Doctoral students in our program build experience and expertise in the issues of social justice and equity which aligns with our metropolitan mission and focus on student achievement.

**Leadership**

Our doctoral students gain expertise in supervising and leading others to achieve organizational goals and missions, managing complex systems, addressing administrative issues and procedures, conducting research to enhance leadership and teaching others about the art of organizational leadership.

**Practical Experience**

The doctoral program contains practicums, internships, or embedded field experience that aligns with program and career goals. These mentored experiences may include teaching, research, administration or other appropriate areas.

**Scholarship/Research**

An emphasis on scholarship includes experience and mentorship in ethics, publications, presentation, grantsmanship, and other forms of creative activity. The research component is characterized by the development of vertical research teams: senior faculty, junior faculty, doctoral students, master’s degree students, and in some programs, undergraduate students, working together on research projects and research areas. These may be bolstered by partnerships with local school districts, businesses, or community agencies.

**Admission Requirements**

**Application Deadlines**

There are four annual admission deadlines. Depending on specific individual goals and situations, different deadlines may be more relevant for you.

**Fall semester start, full-time status with Graduate Assistantship funding possibilities:**

- November 1

Graduate Assistantships (http://louisville.edu/education/financialaid/assistantships) (GA) and University Fellowships (http://louisville.edu/graduate/current-students/funding-opportunities/university-fellowships) are competitive and awarded to full-time students for the fall semester well in advance—as early as mid-January for Fellowships—and typically by late March or April for Graduate Assistantships. Applications for both should be submitted by the November 1 deadline.

Specify the subsequent fall semester as your intended start date on the application. Indicate interest in assistantships on your Statement of Purpose.

**Part-time doctoral student work or otherwise not interested in Graduate Assistantship funding:**

- November 1 - Spring semester start (or later semester as indicated on application)
- February 15 - Summer semester start (or later semester as indicated on application)
- May 1 - Fall and Late Summer semester start (or later semester as indicated on application)

Members of the Curriculum and Instruction PhD admissions committee evaluate all applications after the appropriate admission deadline. Admission decisions are made by the professional judgment of the admissions committee according to established criteria. Admission to the program is competitive and preference is given to applicants who have strong academic records, experiences, and abilities that show demonstrated excellence in professional performance and research potential. All applicants will be notified in writing regarding their admission; typically this notification occurs approximately three weeks after the admissions deadline.

To be considered for admission, all materials must be submitted prior to the admission committee’s review. If materials are incomplete, applicants will be notified and may submit again during the next review.

**Please note:** Application for admission consists of two parts:

1. Documents submitted to the University of Louisville for Graduate Admission, and
2. Materials submitted directly to the PhD Curriculum and Instruction program by the established deadline date.

See the Application Process Overview [PDF](http://louisville.edu/education/degrees/phd-ci/files/phd-ci-application-process-overview.pdf) document for details.

**Admission Materials**

- Graduate Application (online University of Louisville Graduate Application) (http://louisville.edu/graduate/apply)
- Three Letters of Recommendation [PDF](https://sharepoint.louisville.edu/sites/SIGS/Documents/grad-rec.pdf) (see Directions for Applying (https://louisville.edu/graduate/futuresstudents/application-directions) for more information). If you have recommendation letters on file from a previous University of Louisville program application, you will need three new letters of recommendation for this application that speak to your potential in a doctoral program. In addition to the standard University form linked above, please have these individuals submit letters with supporting details for the recommendation. At least one of the three recommendation letters you choose should come from someone familiar with the rigor and requirements of a doctoral program.
- GRE scores (required - see Directions for Applying for more information). The Curriculum & Instruction Doctoral Committee takes a holistic approach to the evaluation of applications, and while GRE scores are one part of the application package, they do not determine admission (i.e., very high scores do not guarantee admission, and low scores do not preclude admission). The holistic approach takes into account all aspects of a student’s application (written statement, letters of recommendation, transcripts, test scores), and faculty
evaluate those pieces of evidence against two broad concerns: (a) is the student prepared for doctoral study, and (b) is the student likely to successfully complete the doctoral program in Curriculum & Instruction?

Please note: when submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838. Online Guide to taking the GRE (http://www.onlinecolleges.net/for-students/gre-test-guide)

• TOEFL scores for non-native speakers of English (if needed - see Directions for Applying for more information)
• Transcripts from each college you have attended other than the University of Louisville. Have all official non-University of Louisville transcripts sent to the Graduate school.
• Statement of Purpose [PDF] (http://louisville.edu/education/degrees/phd-ci/files/phd-ci-statement-of-purpose.pdf) To assist applicants with the process of crafting a strong Statement of Purpose, in addition to the directions on the Statement of Purpose document, an Annotated Exemplar of Statement of Purpose [PDF] (http://louisville.edu/education/degrees/files/phd-ci-annotated-exemplar-of-statement-of-purpose.pdf) is provided here for guidance. This document provides detailed annotated notes about the strengths of a particular example Statement of Purpose.
• Interview Guidelines and Advisor Signature [PDF] (http://louisville.edu/education/degrees/files/phd-ci-interview-guidelines-advisor-signature.pdf). The process of mutually identifying a faculty member who agrees to serve as your doctoral advisor includes an applicant-initiated two-way interview process. As noted on the linked form, faculty with whom you interview in the process of identifying an appropriate advisor are requested to submit input to the admissions committee – such input becomes a portion of the evidence with which the admissions committee will make an admission decision.
• Resume or Curriculum Vitae [PDF] (http://louisville.edu/education/degrees/files/phd-ci-resume-or-curriculum-vita.pdf)

Degree Requirements

Master's Degree Prerequisite + 60 Credit Hours PhD Coursework Minimum

The student and committee must develop courses, programs, and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice, and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the committee can assess.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP 711</td>
<td>Doctoral Professional Seminar: First Year</td>
<td>3</td>
</tr>
<tr>
<td><strong>Area of Emphasis</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thirty (30) credits selected with Program Committee approval</td>
<td>30</td>
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Research Methodology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics (see note) ¹</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 704</td>
<td>Qualitative Field Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Electives

Field survey research, additional qualitative and/or quantitative methodologies, etc. ² ³

Doctoral/Dissertation Research

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP 795</td>
<td>Doctoral Research</td>
<td>15</td>
</tr>
<tr>
<td><strong>Minimum Total Hours</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Students with relevant statistical background should take ELFH 701</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Selected with Program Committee approval and within program guidelines/framework</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>ELFH 600 may not be used for these courses</td>
<td></td>
</tr>
</tbody>
</table>

Cybersecurity (CERT)

Graduate Certificate in Cybersecurity (NIS CNSSPO)

Unit: Speed School of Engineering (GS)

Department: Computer Engineering and Computer Science

Program Webpage (https://louisville.edu/speed/computer/graduate-studies/networkAndInfoSecurity)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The graduate certificate in Cybersecurity is designed for advanced computer professionals who wish to strengthen their knowledge and skills in the fast-changing field of cybersecurity, as well as students majoring in disciplines other than Computer Engineering and Computer Science who want to gain knowledge and skills in cybersecurity.

The Cybersecurity graduate certificate program consists of 12 credit hours with two required courses from Computer Engineering and Computer Science department and two elective courses selected from a list of relevant elective courses in Computer Engineering and Computer Science department.

As networking technology continues to rapidly advance, so do new and sophisticated threats and attacks to the nation's information infrastructure. The Graduate Certificate in Cybersecurity from the University of Louisville will prepare you to respond to these challenges, training you to monitor and identify cybercriminals.

Admission Requirements

The admission standards for the Graduate Certificate program in Data Science are as follows:

1. All admission applications for the Graduate Certificate program shall include the following:
   a. Completed application (http://louisville.edu/graduate/futurestudents/apply-materials/application) for the School of Interdisciplinary and Graduate Studies,
   b. Application fee,
   c. Official transcript(s) for all previous post-secondary coursework.
      All transcripts not in English must be certified as authentic and translated verbatim into English.

2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.

3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).

4. International students whose primary language is not English must show English language proficiency. Applicants must either submit an official TOEFL or IELTS score or demonstrate a degree award from an acceptable English language institution. The successful applicant
A total of 12 credit hours are required with 2 required courses and 2 elective courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 564</td>
<td>Introduction to Cryptography or CECS 568 Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CECS 566</td>
<td>Information Security</td>
<td>3</td>
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<tr>
<td>Select two of the following:</td>
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<tr>
<td>CECS 613</td>
<td>Network Security</td>
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</tr>
<tr>
<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science</td>
<td></td>
</tr>
<tr>
<td>CECS 617</td>
<td>Mobile Computing</td>
<td></td>
</tr>
<tr>
<td>CECS 632</td>
<td>Data Mining</td>
<td></td>
</tr>
<tr>
<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science (Advanced Cryptography)</td>
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</tr>
<tr>
<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science (Database Security)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

**Data Science (CERT)**

**Graduate Certificate in Data Science (DTMGCDSMO)**

Unit: Speed School of Engineering (https://louisville.edu/speed) (GS)
Department: Computer Engineering and Computer Science

Students enrolling in this graduate certificate program will need to have sufficient background to be successful. Therefore, students must have completed the required course prerequisites, or have equivalent knowledge from courses taken at other universities, or from work experience. Prerequisites include courses (or equivalent) such as CECS 130, CECS 310, and CECS 503.

Students can enroll in a Graduate Certificate program either as a non-degree seeking student or as a student simultaneously enrolled in a graduate degree program and this graduate certificate program. Students who wish to earn a graduate degree must meet all admission criteria for the degree program.

All students enrolled in a graduate certificate program are expected to make steady and satisfactory progress toward the completion of the certificate. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the certificate program. Students who seek to return after such a period of time must contact the graduate program director.

**Program Requirements**

A total of 12 credit hours are required with 2 required courses and 2 elective courses.

**Certificate Requirements**

The following certificate requirements are mandatory for all Graduate Certificate candidates:

1. The Certificate Program of Study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.
2. Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.

**Program Information**

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

To address the need for trained professionals in the interdisciplinary field of data mining, the Department of Computer Engineering and Computer Science and the Department of Mathematics faculty have developed a joint certificate program in data mining. The certificate will consist of 18 credit hours, with three required courses from Computer Engineering and Computer Science and three elective courses selected from a list of relevant elective courses in Computer Engineering and Computer Science and Mathematics.

**Admission Requirements**

The admission standards for the Graduate Certificate program in Data Science are as follows:

1. All admission applications for the Graduate Certificate program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies
   b. Application fee
   c. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.
3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).
4. International students whose primary language is not English must show English language proficiency. Applicants must either submit an official TOEFL or IELTS score, or demonstrate a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or an overall IELTS score of 6.5 or higher.

Students can enroll in a Graduate Certificate program either as a non-degree seeking student or as a student simultaneously enrolled in a graduate degree program and this graduate certificate program. Students who wish to earn a graduate degree must meet all admission criteria for the degree program.

All students enrolled in a graduate certificate program are expected to make steady and satisfactory progress toward the completion of the certificate. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the certificate program. Students who seek to return after such a period of time must contact the graduate program director.

**Certificate Requirements**

The following certificate requirements are mandatory of all Graduate Certificate candidates:

1. The Certificate Program of Study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.
2. Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECS 535</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>or CECS 536</td>
<td>Data Management and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CECS 632</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>CECS 635</td>
<td>Data Mining with Linear Models</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
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</tr>
<tr>
<td>CECS 522</td>
<td>Performance Evaluation of Computer Systems</td>
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</tr>
<tr>
<td>CECS 545</td>
<td>Artificial Intelligence</td>
<td></td>
</tr>
<tr>
<td>CECS 563</td>
<td>Experimental Design in Engineering</td>
<td></td>
</tr>
<tr>
<td>CECS 619</td>
<td>Design and Analysis of Computer Algorithms</td>
<td></td>
</tr>
<tr>
<td>CECS 621</td>
<td>Web Mining for E-Commerce and Information Retrieval</td>
<td></td>
</tr>
<tr>
<td>CECS 622</td>
<td>Simulation and Modeling of Discrete Systems</td>
<td></td>
</tr>
<tr>
<td>CECS 630</td>
<td>Advanced Databases</td>
<td></td>
</tr>
<tr>
<td>CECS 660</td>
<td>Introduction to Bioinformatics</td>
<td></td>
</tr>
<tr>
<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science (Legal issues in Data Mining)</td>
<td></td>
</tr>
<tr>
<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science (BIG DATA: Document-oriented DB)</td>
<td></td>
</tr>
<tr>
<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science (Related Data Mining)</td>
<td></td>
</tr>
<tr>
<td>MATH 560</td>
<td>Statistical Data Analysis - WR</td>
<td></td>
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<tr>
<td>MATH 561</td>
<td>Probability</td>
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<tr>
<td>MATH 562</td>
<td>Mathematical Statistics</td>
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</tr>
<tr>
<td>MATH 667</td>
<td>Statistical Inference</td>
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</tbody>
</table>

Minimum Total Hours 18

The Certificate Program of Study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.

Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.

Dentistry (MSD)

Master of Science in Dentistry (MSD)
Unit: School of Dentistry (https://louisville.edu/dentistry)
Program Webpage (https://louisville.edu/dentistry/residency)

Program Information

The School of Dentistry offers a program of study leading to the Master of Science Degree in Dentistry for postgraduate students/residents enrolled in Advanced Specialty Certificate Programs in Endodontics, Orthodontics, Pediatric Dentistry, Periodontics, and Prosthodontics.

The courses for the Master of Science in Dentistry will total 31 credit hours. The curriculum is at least 19 credit hours (11 core and 8 selective courses), plus credit for research and thesis/publication (minimum 12 hours). In addition, depending on the specific accreditation requirements of the specialty, either two or three years of clinical training are required.

The credit hours needed to complete the MSD and the certificate are listed below.

<table>
<thead>
<tr>
<th>M.S.D./Specialty Programs</th>
<th>Credit Hours</th>
<th>Time to Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endodontics</td>
<td>69</td>
<td>2 years</td>
</tr>
<tr>
<td>Orthodontics</td>
<td>72</td>
<td>2 years</td>
</tr>
<tr>
<td>Pediatric Dentistry</td>
<td>70</td>
<td>2 years</td>
</tr>
<tr>
<td>Periodontics</td>
<td>103.5</td>
<td>3 years</td>
</tr>
<tr>
<td>Prosthodontics</td>
<td>94</td>
<td>3 years</td>
</tr>
</tbody>
</table>

The School of Dentistry post-professional Master of Science in Dentistry with Specialty Certificate programs offer didactic and clinical training leading to certification in the specific dental specialty area. Completion of an accredited certificate program allows the student to be recognized by state boards of dentistry and by the respective specialty boards as eligible for specialty board examination and specialty dental licensure.

These programs help to develop skillful clinicians and researchers for careers in academic dentistry or private practice in the specialty areas of Endodontics, Orthodontics, Pediatric Dentistry, Periodontics and Prosthodontics. Excellent training in clinical dentistry, teaching skills, and the process and interpretation of biomedical research is essential to equip tomorrow's specialists with the proper scientific background to deal with the changes and challenges inherent in a profession undergoing rapid scientific advancement. These postgraduate students are exposed to a wide variety of clinical techniques by a group of highly qualified faculty with diverse training and varied backgrounds. The philosophy of the programs is that clinical excellence is based on technical proficiency, expert diagnostic skills and broad-based knowledge of the specific specialty literature.

The didactic portion of the curriculum explores the concepts, designs, regulation, interpretation, and presentation of modern biomedical research upon which the practice of modern Endodontics, Orthodontics, Pediatric Dentistry, Periodontics, or Prosthodontics is based.

The Master of Science in Dentistry trains students in research concepts allowing them to design and complete a clinical or basic science research project. As a part of this program, the student is guided to design a research project and write a research proposal including any informed consent and data collection forms. The student will then conduct the research project to completion. Federal regulations and University of Louisville policy require that all research involving human subjects or analysis of data gathered from human subjects, regardless of funding status, be reviewed and approved by the IRB prior to the implementation of any research activity. After completion of the research project, the student will present the research project in both oral and written form. The oral presentation (defense) includes a review of the literature relevant to the research project, analysis of all data using appropriate statistical tests, and comparison of the results of the project to similar research in the dental literature. The student will also write a thesis or a paper that is suitable for submission and publication in an appropriate peer-reviewed journal.

Students who are enrolled in Endodontics, Orthodontics, Pediatric Dentistry, Periodontics, or Prosthodontics will complete the requirements for the Master of Science in Dentistry in conjunction with the awarding of the specialty certificate.
Program Descriptions

MSD/Endodontics
Endodontics is the branch of dentistry which is concerned with the morphology, physiology, and pathology of the human dental pulp and tissues around the tooth root. Its study and practice encompass the basic and clinical sciences, including biology of the normal pulp, the etiology, diagnosis, prevention and treatment of diseases and injuries of the pulp and associated conditions occurring around the tooth root.

MSD/Orthodontics
Orthodontics is the dental specialty that includes the diagnosis, prevention, interception, and correction of malocclusion of the teeth, as well as neuromuscular and skeletal abnormalities of the developing or mature orofacial structures.

MSD/Pediatric Dentistry
Pediatric Dentistry is an age-defined specialty that provides both primary and comprehensive preventive and therapeutic oral health care for infants and children through adolescence, including those with special health care needs.

MSD/Periodontics
Periodontics is that specialty of dentistry which encompasses the prevention, diagnosis, and treatment of diseases of the supporting and surrounding tissues of the teeth or their substitutes and the maintenance of the health, function and esthetics of these structures and tissues.

MSD/Prosthodontics
Prosthodontics is the dental specialty pertaining to the diagnosis, treatment planning, rehabilitation and maintenance of the oral function, comfort, appearance and health of patients with clinical conditions associated with missing or deficient teeth and/or oral and maxillofacial tissues using biocompatible substitutes.

Admission Requirements
After acceptance into an Advanced Specialty Certificate Program in Endodontics, Orthodontics, Pediatric Dentistry, Periodontics or Prosthodontics, please complete the application form available online at louisville.edu/graduate/apply.

Admission Credentials
- Application submitted to the School of Interdisciplinary and Graduate Studies
- Application fee
- Official transcripts of all college coursework, including evidence of a baccalaureate degree
- Two (2) letters of recommendation
- TOEFL scores, if English is not the applicant’s native language

Program Requirements
All of the specialty programs will require 11 credit hours in the following courses:

MSD Core Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIID 501</td>
<td>Biomedical Data Analysis: Experimental Design and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>OIID 601</td>
<td>Introduction to Oral Biology Research</td>
<td>2</td>
</tr>
<tr>
<td>OIID 606</td>
<td>Oral Biology Communication</td>
<td>2</td>
</tr>
<tr>
<td>OBIO 617</td>
<td>Advanced Oral Pathology</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 622</td>
<td>Multiple-Disciplinary Seminars</td>
<td>1</td>
</tr>
<tr>
<td>ASNB 675</td>
<td>Advanced Head and Neck Anatomy</td>
<td>2</td>
</tr>
</tbody>
</table>

MSD Electives

All of the specialty programs are also required to take at least eight (8) credits hours from the following list of electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIID 600</td>
<td>Concepts in Oral Immunology</td>
<td>2</td>
</tr>
<tr>
<td>OIID 604</td>
<td>Oral Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>OIID 605</td>
<td>Oral Health Seminars</td>
<td>0.5</td>
</tr>
<tr>
<td>OIID 610</td>
<td>Advanced Topics in Oral Biology</td>
<td>1-4</td>
</tr>
<tr>
<td>OBIO 611</td>
<td>Craniofacial Osteology</td>
<td>1-3</td>
</tr>
<tr>
<td>OBIO 612</td>
<td>Craniomaxillofacial Diagnostic Imaging</td>
<td>2-4</td>
</tr>
<tr>
<td>OBIO 613</td>
<td>The Diagnosis &amp; Treatment of Temporomandibular Disorders</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 614</td>
<td>Advanced Oral Diagnosis and Oral Medicine</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 615</td>
<td>Advanced Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 616</td>
<td>Overview of Medical Genetics in Oro-Facial Disease</td>
<td>1.5</td>
</tr>
<tr>
<td>OBIO 623</td>
<td>Advanced Implantology</td>
<td>1</td>
</tr>
</tbody>
</table>

Research/Thesis
In addition to these 19 Credit Hours, each postgraduate student/resident will complete a research project that will be supervised by the specialty program director or a designated faculty member.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIID 619</td>
<td>Graduate Research</td>
<td>1-8</td>
</tr>
<tr>
<td>OIID 620</td>
<td>Thesis</td>
<td>1-8</td>
</tr>
</tbody>
</table>

Total Minimum Hours: 31

In addition to the completion of the core curriculum and the postgraduate research project, there are didactic and clinical courses required for the completion of the necessary hours needed for each certificate (see Overview tab).

Prerequisite: OIID 600 or consent of instructor. Selected areas will be investigated in depth, using one or more of a variety of formats, including lectures, seminars, tutorials, and research projects.
Diversity Literacy (CERT)

Graduate Certificate in Diversity Literacy (DILICDL)
Unit: College of Arts and Sciences (GA)
Department: Philosophy
Program Webpage (https://louisville.edu/philosophy/graduate-programs/copy_of_diversity-literacy-certificate)

Program Information

The Certificate in Diversity Literacy will provide a unique opportunity for students who have already earned bachelor’s degrees to enhance their knowledge and skills of the theory and practice of inclusion and equity, including what diversity means, what its personal and social effects are, and how it shapes lives, workplaces, and pedagogy. This knowledge base and skill set will allow, for example, educators to become more inclusive in their pedagogy, employees to work more effectively in multicultural teams, and managers to become better supervisors by better understanding their cultural assumptions and those of their employees.

Admission Requirements

Anyone who has earned a baccalaureate degree from an accredited college or university may apply.

The following materials will be necessary to complete an application:

- Official transcripts of prior undergraduate and graduate work;
- Two letters of recommendation;
- A 2-3 page essay describing the applicant’s interest in the program and how it will benefit her or his course of study and/or career path.

Program Requirements

The curriculum for this certificate consists of 18 total credit hours, structured as follows:

**Code** | **Title** | **Hours**
--- | --- | ---
PHIL 690 | Fundamentals of Diversity | 3
Electives in courses with a diversity focus (list of eligible electives is below) | 12
PHIL 691 | Capstone in Diversity Literacy | 3
Minimum Total Hours | 18

1. These electives must include at least 4 dimensions of diversity (race/ethnicity, gender, class, religion, disability, sexual identity, and language), and at least 1 must be in the humanities and 1 in the social sciences.

Eligible Electives

Special topics courses and courses from outside of the College of Arts and Sciences may be substituted with the approval of the Director.

**Code** | **Title** | **Hours**
--- | --- | ---
ANTH 627 | Political Economy and Culture | 3
ANTH 624 | Black Cultural Traditions | 3
COMM 630 | Communication and Multiculturalism | 3
ENGL 520 | World Englishes | 3
ENGL 549 | Studies in Post-Colonial and/or Ethnic Literature - CUE | 3
ENGL 550 | Studies in African American Literature - CUE | 3
ENGL 554 | Women’s Personal Narratives - CUE | 3
ENGL 560 | African-American Literature | 3
ENGL 567 | Post-Colonial Voices: Writing Experience in African Literature - CUE, WR | 3
ENGL 575 | Genre Studies in African-American Literature - CUE | 3
ENGL/PAS 577 | The Harlem Renaissance - CUE | 3
FREN 506/571 | Francophone Women Writers | 3
GEOG/LALS 510 | Urbanism in the Global South: Cities and Space | 3
GEOG 529 | Geography of Urban Issues | 3
HIST 506 | Women in 19th Century America - WR | 3
HIST 512 | History of the Jews in America - CUE, WR | 3
HIST 583/WGST 531/631 | Women in the Twentieth Century in Europe and the U.S. - CUE, WR | 3
HIST/WGST 584 | Women in East Asian History | 3
HIST 588/WGST 530/630 | Feminism in Western Civilization, 1790-1920 - WR | 3
HIST 590 | Studies in African History - CUE, WR | 3
HIST 592 | Civilizations of Modern India - CUE, WR | 3
HIST 593 | American Image of the Middle East - CUE | 3
HUM 513 | Topics in Comparative Religions | 3
HUM 512/612 | Topics in Contemporary Religious Thought | 3
HUM 513/613 | Topics in Comparative Religions | 3
HUM 514/614 | Perspectives on Religious Coexistence and Conflict | 3
HUM 515/615 | Topics in Gender and the Humanities | 3
LALS 680 | Issues in Latin American and Latino Studies | 3
LING/ENGL 520 | World Englishes | 3
PAS 520/620 | The Black Family - WR | 3
PAS 532 | Slave Trade and Slavery in the African World | 3
PAS 542/643/WGST 543/643 | Black Women’s Voices - CUE, WR | 3
PAS 619 | Advanced Seminar in African-American Studies | 3
PAS 620 | Black Literature & Popular Culture | 3
PHIL 516/616/PAS 616 | African-American Philosophy | 3
PHIL 519/619 | Topics in Philosophy of Race and Racism | 3
PHIL 557/657 | African Philosophy | 3
PHIL 582/682/WGST 582/682 | Gender, Race, and Culture in Health Care | 3
POLS 563/WGST 558 | Women in Developing Countries - WR | 3
PSYC 566 | Race and Gender in Psychological Research | 3
SOC 512/612/WGST 512/612 | Gender, Race, Work, and Welfare | 3
SOC 636 | Sociology of Human Sexuality | 3
SOC 685 | Race and Ethnicity | 3
SPAN 554 | Hispanic Culture through Film and Media | 3
SPAN 644 | Approaches to Hispanic Literature | 3
SPAN 648 | Hispanic Cultural Studies | 3
TA 532 | Advanced Directing the Black Experience | 3
TA 547 | Advanced Black Aesthetic on Stage | 3
TA 562 | Advanced Black Dramatic Literature | 3
TA 563 | Advanced African-American Women in Theatre | 3
Interdisciplinary Early Childhood Education (MAT)

Master of Arts in Teaching in Interdisciplinary Early Childhood Education (IECEMAT)

Unit: College of Education and Human Development (GE) (http://catalog.louisville.edu/graduate/programs-study/master-of-arts-in-teaching-in-interdisciplinary-early-childhood-education/louisville.edu/education)

Department: Early Childhood and Elementary Education (http://louisville.edu/education/departments/ecee)

Program Webpage: louisville.edu/education/degrees/mat-iece

Program Information

Interdisciplinary Early Childhood Education Birth to Primary Teacher Certification Program

The IECE program emphasizes in-depth academic preparation and field experiences that allow teachers to be knowledgeable about the field of early childhood/special education and to develop critical thinking and lifelong learning skills. The program emphasizes:

- Nurturing students as active agents in their own learning
- Authentic, performance-based assessment of teaching and learning
- Meeting the needs of all students
- Responding constructively to sociocultural differences among students

The program prepares students interested in working with children from birth to age 5 in a wide variety of settings—day care centers, public and private preschools, community programs, and clinics. This program gives students authentic experiences with infants, toddlers, and preschool children in the areas of curriculum development, typical and atypical child development, programs and services for children and their families, family involvement and intervention, screening and assessment, program administration, current topics, and practicum/action research.

The goals of this program include:

- IECE Teacher Certification
- Preparation of teachers for the education of typical and atypical children in different settings
- Provide background information on Kentucky Child Learning and Assessment Standards

Admission Requirements

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program:

1. Application to School of Interdisciplinary Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Minimum test scores (http://louisville.edu/education/degrees/info/gre-mat) as required by EPSB. Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. Bachelors degree (http://louisville.edu/education/degrees/info/bachelors) with minimum undergraduate degree GPA of 2.75 (official transcripts (http://louisville.edu/education/degrees/info/transcripts) required)
4. C or higher in ENGL 102 (or equivalent) and oral communication courses
5. TOEFL (http://louisville.edu/education/degrees/info/toefl)
6. Professional Statement (http://louisville.edu/education/degrees/info/mat-mse-professional-statement)
8. Three Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)
9. Interview

Candidates considering applying to the MAT program should contact the Education Advising and Student Services office (teacher@louisville.edu) prior to applying for admission.

Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 527</td>
<td>Inquiry into Early Childhood Education and Child Development</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 532</td>
<td>Advanced Curriculum and Methods in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 533</td>
<td>Curriculum and Methods for Early Childhood Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 536</td>
<td>Theories of Play</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 537</td>
<td>Infant/Toddler Development &amp; Care</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 635</td>
<td>Administration and Consultations: Day Care and Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 641</td>
<td>Interdisciplinary Content Methods in Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>
Program Information

The MAT in Early Elementary Education enables graduate students to earn their initial teaching certificate for grades P-5 in Kentucky. Candidates learn to teach through instruction in pedagogy, child development, special education, gifted education, technology, and diversity. They develop their skills in field experiences in local area schools. The Early Elementary Education program emphasizes meeting the needs of the individual learner using best instructional practices in a standards-based environment. Through coursework and clinical field experiences, teacher education students become critical thinkers who are prepared to meet the demands of 21st-century elementary education.

Admission Requirements

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program. Candidates considering an application to the MAT program should contact the MAT admissions counselor (teacher@louisville.edu) prior to applying for admission. Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

1. Application to School of Interdisciplinary Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Passing Test Scores (http://louisville.edu/education(degrees/info/gre-mat). Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. Bachelor's Degree from Accredited College or University (http://louisville.edu/education(degrees/info/bachelors) with a Minimum 2.75 Grade Point Average (official transcripts required).
4. Prerequisite Course Requirements (http://louisville.edu/education(degrees/info/mat-eee-prereq).
5. Oral Communication (http://louisville.edu/education(degrees/info/oral-comm) course.
6. "C" or higher in English 102.
7. TOEFL (http://louisville.edu/education(degrees/info/toefl).
8. Professional Writing Requirements (http://louisville.edu/education(degrees/info/mat-mse-professional-statement).
10. Acceptable interview.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 602</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>1</td>
</tr>
<tr>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 501</td>
<td>General Methods</td>
<td>1</td>
</tr>
</tbody>
</table>

The above three courses must be taken prior to any of the next 4 courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 603</td>
<td>P-5 Language Arts Methods</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 604</td>
<td>P-5 Mathematics Methods</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 605</td>
<td>Teaching Elementary School Science</td>
<td>1</td>
</tr>
<tr>
<td>EDTP 606</td>
<td>P-5 Social Studies Methods</td>
<td>1</td>
</tr>
</tbody>
</table>

Early Elementary Education (MAT)

Master of Arts in Teaching in Early Elementary Education (EREDMAT)


Department: Early Childhood and Elementary Education

Program Webpage: louisville.edu/education(degrees/info/bachelors)

With a minimum 2.75 Grade Point Average (official transcripts required), admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Required Courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 684</td>
<td>Early Family Intervention for Preschool Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 683</td>
<td>Early Childhood Special Education Assessment</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mid-Point Assessment: Prior to Student Teaching</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EDTP 614</td>
<td>Student Teaching: Interdisciplinary Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 615</td>
<td>Student Teaching in the Elementary Grades (Primary)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 36

Certification Assessment: After Student Teaching: Satisfactory dispositions assessment; 2.0 or higher in student teaching; satisfactory certification work sample; passing scores on required PRAXIS exams; positive recommendation from ECEE program committee.

Degree Assessment: Satisfactory dispositions assessment, all program coursework with 3.0 cumulative GPA (and no more than a total of two grades of C) in degree courses, satisfactory degree work sample.

Degree Candidacy: If not enrolled during the semester in which you are graduating, you will need to register for degree candidacy as outlined in the Graduate Catalog (p. 802).

Praxis Disclaimer:

"Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or ets.org/praxis/ky (http://www.ets.org/praxis/ky) for current requirements."

1. Advisor approval needed.
2. No lower than 2.0 in EDTP 641; successful completion of all courses listed above except EDSP 684; positive recommendation from program committee (including assessment of dispositions and mid-program teacher performance assessment); electronic documentation of 200 hours of diverse and approved field experiences.
The EdS (Education Specialist) degree in Educational Administration is a 30-credit hour, post-master’s degree program. It can lead to certification in principalship, or supervisor of instruction.

The EdS program is designed to prepare school leaders to engage in principalship, or supervisor of instruction.

The candidate's admission packet must demonstrate his/her skills and understanding of the following: ability to improve student achievement, leadership, and advanced knowledge of curriculum, instruction, and assessment. Candidates applying for admission are jointly screened by both the University of Louisville faculty and local school district personnel.

**Admission Requirements**

- Evidence of bachelor’s and master’s degrees
- Transcripts of all undergraduate and graduate work

**Admission to this Program**

- A 3.3 grade point average from the master’s degree program
- Signed copies of the following forms: Acceptable Use of Technology Agreement and Professional Code of Ethics for Kentucky School Personnel

**Degree Program Admission Requirements**

- Joint screening by ELEOD Department and local school district personnel
- A written rationale for pursuing the degree (limit of 1 page)
- A current resume
- Your philosophy of education (not to exceed 2 pages)
- Two written letters of recommendation attesting to the candidate's skills and understanding of (a) ability to improve student achievement, (b) leadership, (c) advanced knowledge of curriculum, instruction, and assessment. One must be from the current site supervisor.
- Three years of successful K-12 teaching experience in Kentucky or three years (1 year = 140 contract days) of successful K-12 teaching outside the state of Kentucky.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 633</td>
<td>Organizational Structures and Operations</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 634</td>
<td>P-12 Leadership for Curriculum, Instruction, &amp; Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 635</td>
<td>P-12 Human Resources: Securing and Developing Staff</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 636</td>
<td>Shaping School Culture and Community</td>
<td>3</td>
</tr>
</tbody>
</table>

**Midpoint Assessment**

Satisfactory dispositions assessment 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 637</td>
<td>Leveraging Community Systems and Resources</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 620</td>
<td>Legal Issues in P-12 Education</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 622</td>
<td>Educational Resource Management in P-12 Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Information**

The EdS (Education Specialist) degree in Educational Administration is a 30-credit hour, post-master’s degree program. It can lead to certification in principalship, or supervisor of instruction.

The EdS program is designed to prepare school leaders to engage staff, improve the instructional capacity of schools, and deal effectively with the educational challenges of the 21st century. The goal of the EdS program is to provide field experience, clinical practice, and conceptual and theoretical knowledge necessary for roles in instructional leadership. The Department of Educational Leadership, Evaluation, and Organizational Development maintains a strong collaboration with school districts in preparing exemplary P-12 school administrators.
Program Information

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field/discipline. All candidates for a doctoral degree in the College of Education and Human Development must successfully complete qualifying exams and a dissertation/professional portfolio that clearly indicates the candidate has mastered and can exhibit/articulate the content knowledge, skills and dispositions specific to their discipline, and can utilize appropriate research methodologies to contribute to the body of knowledge in their field.

Distinctive Characteristics of Doctoral Programs in the College of Education and Human Development

I. Social Justice and Equity

Doctoral students in our program build experience and expertise in the issues of social justice and equity which aligns with our metropolitan mission and focus on student achievement.

II. Leadership

Our doctoral students gain expertise in supervising and leading others to achieve organizational goals and missions, managing complex systems, addressing administrative issues and procedures, conducting research to enhance leadership and teaching others about the art of organizational leadership.

III. Practical Experience

The doctoral program contains practicums, internships, or embedded field experience that aligns with program and career goals. These mentored experiences may include teaching, research, administration or other appropriate areas.

IV. Scholarship/Research

An emphasis on scholarship includes experience and mentorship in ethics, publications, presentation, grantsmanship, and other forms of creative activity. The research component is characterized by the development of vertical research teams: senior faculty, junior faculty, doctoral students, master’s students, and in some programs, undergraduate students, working together on research projects and research areas. These may be bolstered by partnerships with local school districts, businesses, or community agencies.

Admission Requirements

Students apply for the EdD in ELOD each spring, with enrollment each fall. Priority application deadline is May 15 of each year.

Applicants must submit the following credentials to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
Houchens Building, Room 105
University of Louisville
Louisville, KY 40292

1. School of Interdisciplinary and Graduate Studies Application (even if currently enrolled in a University of Louisville program). Apply online at louisville.edu/graduate/apply

2. Official copies of all collegiate transcripts (undergraduate and graduate). Graduates of the University of Louisville need not provide a transcript. GPA of 3.50 required in graduate work.

3. Applicants submitting foreign transcripts (http://louisville.edu/education/degrees/info/transcripts) must submit transcript(s) to either the World Education Evaluation Service (WES) or Education

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Degree Program Completion Requirements

A grade point average of 3.3 in all courses counting on this program

Successful completion of a capstone in ELFH 782 at the completion of Level 1

Successful completion of a program portfolio at the end of Level 2. Information about the portfolio is found in “Guidelines for Portfolio Completion Requirement,” available from your advisor

Certification requirements

The Education Professional Standards Board is responsible for issuing and renewing certificates for all Kentucky teachers and administrators. Candidates for principal certification must pass both the SLLA and the KYTP. These tests may be taken during the last semester of coursework for Level 1 Principal Certification. Current information about the Kentucky assessment program may be retrieved from epsb.ky.gov (http://www.epsb.ky.gov/mod/book/view.php?id=93).

Completion of three (3) years of full-time teaching experience

1 Satisfactory completion of hallmark/dispositions assessments in ELFH 633, ELFH 634, ELFH 635, and ELFH 636. Must maintain a GPA of 3.3.

2 Refer to program completion requirements for Level 1 prior to Level 2

3 TBD by student and advisor - may be a course leading to additional certification

4 Students in the EdS program will be required to complete an exit portfolio in their last semester of the program.

5 Completion of a Rank I program requires a minimum of 60 credit hours in approved program. For Rank I purposes approved graduate hours at the master’s level may be counted to reach 60 credit hours, though some of those hours may not count toward certification. Students seeking Rank I simultaneously with this certification program must complete the appropriate form with the advisor. The advisor must approve electives/unnamed courses.

Educational Leadership and Organizational Development (EdD)

Doctor of Education in Educational Leadership and Organizational Development (ELODEDD)

Unit: College of Education and Human Development (https://louisville.edu/education) (GE)

Department: Educational Leadership, Evaluation, and Organizational Development

Program Webpage (https://louisville.edu/education/degrees/edd-elod)
Program Requirements

Master’s degree prerequisite + 60 credit hours minimum

The Student and Program Committee must develop courses, programs and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the Committee can assess.

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field/discipline. All candidates for a doctoral degree in the CEHD must successfully complete qualifying exams and a dissertation/professional portfolio that clearly indicates the candidate has mastered and can exhibit/articulate the content knowledge, skills and dispositions specific to their discipline and can utilize appropriate research methodologies to contribute to the body of knowledge in their field.

Required Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty Components 1</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>ELFH 715</td>
<td>Advanced Organizational Theory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Additional Specialty Component courses selected with Program Committee approval</td>
<td></td>
</tr>
<tr>
<td>Research Methodology 1</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>ELFH 600</td>
<td>Applied Statistics (or equivalent required)</td>
<td></td>
</tr>
<tr>
<td>Research Course to aid in the completion of the EdD Degree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Course to aid in the completion of the EdD Degree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Electives (e.g., Field Survey Research, additional qualitative methodologies and/or quantitative methodologies) 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELFH 777</td>
<td>Capstone for Doctor of Education Degree in Educational Leadership and Organizational Development (12 hours)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 60

1 EdD students complete 33 hours of Specialty Component coursework and 27 hours of Research Methodology for a minimum total of 60 credit hours of eligible graduate work. Courses are selected with Program Committee Approval within program guidelines/framework.

2 Selected with Program Committee Approval within program guidelines/framework. Students have the opportunity to take courses in other disciplines. ELFH 600 may not be used to satisfy this requirement.

Educational Leadership and Organizational Development (PhD)

Doctor of Philosophy in Educational Leadership and Organizational Development (ELODPHD)

Unit: College of Education and Human Development (GE)

Department: Educational Leadership, Evaluation, and Organizational Development

Program Webpage (https://louisville.edu/education/degrees/phd-elod)

Program Information

The Doctor of Philosophy in Educational Leadership and Organizational Development encompasses five specialties:

- P-12 Administration
- Post-secondary Administration
- Sport administration
- Human Resource Development
- Evaluation

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field/discipline. All candidates for a doctoral degree in the College of Education and Human Development must successfully complete qualifying exams and a dissertation/professional portfolio that clearly indicates the candidate has mastered and can exhibit/articulate the content knowledge, skills and dispositions specific to their discipline and can utilize appropriate research methodologies to contribute to the body of knowledge in their field.

Distinctive Characteristics of Doctoral Programs in the College of Education and Human Development

Social Justice and Equity

Doctoral students in our program build experience and expertise in the issues of social justice and equity which aligns with our metropolitan mission and focus on student achievement.
Leadership

Our doctoral students gain expertise in supervising and leading others to achieve organizational goals and missions, managing complex systems, addressing administrative issues and procedures, conducting research to enhance leadership and teaching others about the art of organizational leadership.

Practical Experience

The doctoral program contains practicums, internships, or embedded field experience that aligns with program and career goals. These mentored experiences may include teaching, research, administration or other appropriate areas.

Scholarship/Research

An emphasis on scholarship includes experience and mentorship in ethics, publications, presentation, grantsmanship, and other forms of creative activity. The research component is characterized by the development of vertical research teams: senior faculty, junior faculty, doctoral students, master's students, and in some programs, undergraduate students, working together on research projects and research areas. These may be bolstered by partnerships with local school districts, businesses, or community agencies.

Admission Requirements

The following must be completed before your application will be considered:

1. Graduate Application (http://louisville.edu/graduate/apply) (even if currently enrolled in a University of Louisville program). All other application materials, except GRE Scores and online recommendation letters, should be sent to the address at the bottom of this page.

2. Resume or Curriculum Vitae. It is expected that applicants have prior academic and professional experience in their field of interest. The PhD program is intended for experienced professionals, holding relevant academic degrees and who are qualified to undertake advanced study at the doctoral level. It is important that the academic and professional experience of applicants match the educational focus of the program curriculum and the educational and professional orientation of the program faculty.

3. Recommendations. Using the School of Interdisciplinary and Graduate Studies on-line application, enter email addresses of three individuals familiar with your background to provide a letter of evaluation in addition to the Recommendation form (https://sharepoint.louisville.edu/sites/SIGS/Documents/grad-rec.pdf). It is recommended that at least one of the individuals be a former faculty member who is able to speak to your academic background.

4. Graduate Record Examination test scores (Verbal & Quantitative). Prepare a formal statement that describes 1) your detailed rationale for pursuing a doctoral degree and 2) your research interest(s). State which track of the PhD program for which you are applying. Discuss your interest in a doctoral study, indicating how your personal and professional goals, professional experiences, and commitment to education, learning, and research are congruent with a doctoral program in educational leadership and organization development. More specifically, relate your goals to a particular specialization(s). Include a clear statement about your research interest(s) and goals, and how this doctoral program will help you achieve those goals.

Admissions Committee members will expect a statement of at least 1,500 words. Please keep in mind that the statement of goals also serves as a sample of your writing ability and the committee will review it in this light.

Send ALL admission materials to:

University of Louisville
School of Interdisciplinary and Graduate Studies
Graduate Admissions
Houchens Bldg., Room 105
Louisville, KY 40292

The Admissions Committee takes a holistic approach to the evaluation of applications, and while GRE scores are one part of the application package, they do not determine admission (i.e., very high scores do not guarantee admission, and low scores do not preclude admission). The holistic approach takes into account all aspects of a candidate's application, as faculty try to determine if the candidate is prepared for the program, and if the candidate is likely to successfully complete the program.

Program Requirements

Master's degree prerequisite + 60 credit hours minimum: The Student and Committee must develop courses, programs and experiences that clearly identify and address the specific themes of Leadership, Scholarship, Social Justice and Equity. These areas of emphasis must have descriptive competencies that the student should attain and the Committee can assess.

5. TOEFL is required of students from countries where English is not the native language, and who have not completed a college level degree in the United States. It is the expectation of the Admissions Committee that applicants would have a minimum computer-based TOEFL score of 220 or a paper-based score of 560.
Coursework Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE AND ELECTIVE COGNATE COMPONENTS ¹</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>ELFH 710</td>
<td>Doctoral Seminar in Educational Leadership</td>
<td></td>
</tr>
<tr>
<td>ELFH 674</td>
<td>Advanced Leadership Theory</td>
<td></td>
</tr>
<tr>
<td>ELFH 715</td>
<td>Advanced Organizational Theory</td>
<td></td>
</tr>
<tr>
<td>ELFH 780</td>
<td>Problem Analysis in Educational Leadership I</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESEARCH METHODOLOGY ²</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics (or equivalent required)</td>
<td></td>
</tr>
<tr>
<td>ELFH 701</td>
<td>Intermediate Applied Statistics</td>
<td></td>
</tr>
<tr>
<td>ELFH 702</td>
<td>Applied Multiple Regression</td>
<td></td>
</tr>
<tr>
<td>ELFH 703</td>
<td>Multivariate Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>ELFH 704</td>
<td>Qualitative Field Research Methods</td>
<td></td>
</tr>
<tr>
<td>ELFH 705</td>
<td>Qualitative Data Analysis and Representation</td>
<td></td>
</tr>
<tr>
<td>Dissertation/Portfolio Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELFH 795</td>
<td>Doctoral Research</td>
<td>12</td>
</tr>
<tr>
<td>ELECTIVE COMPONENT ³</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 60

¹ 33 credit hours minimum, selected with Program Committee Approval
² 15 credit hours minimum, selected with Program Committee Approval
³ Master's degree comprises elective component of program.

Electrical Engineering (MEng)

Master of Engineering in Electrical Engineering (EE MEN)
Unit: Speed School of Engineering (http://louisville.edu/speed) (SP)
Department/Program Webpage (https://louisville.edu/speed/electrical)

Program Information

General Information

The Bachelor of Science in Electrical Engineering degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Electrical Engineering degree. The Master of Engineering in Electrical Engineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Electrical Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Electrical Engineering bachelor degree program at Speed School. Therefore, students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

Master of Engineering Program Educational Objectives

Graduates of the Master of Engineering program in the Electrical and Computer Engineering Department are expected within a few years of graduation to have:

1. Established themselves in successful and productive careers or advanced studies in electrical engineering or a related area, possess technical competency in electrical engineering, and are effective team members and effective communicators.

2. Demonstrated the ability to engage in lifelong learning in electrical engineering and related fields.

3. Acquired a sense of professionalism, with emphasis on professional ethics, an awareness of professional licensing, and participation in the affairs of the profession.

Master of Engineering Student Outcomes

In order to achieve these objectives, the Master of Engineering program in the Electrical and Computer Engineering Department has the following outcomes set for its graduates. Graduates will demonstrate:

1. The ability to design components, devices, and systems to meet specified needs in electrical engineering within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

2. The ability to identify, formulate, and solve problems in electrical engineering.

3. The ability to use the techniques, skills, and tools of modern engineering effectively in the practice of electrical engineering.

Residency

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for MEng residency until the degree is awarded (i.e., the candidate must maintain continuous registration, including summer terms, in Graduate Studies). Failure to pay the MEng residency fee will be cause to cancel a student’s residency. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. In order to be restored to residency, the student must submit a new application, have the recommendation of the department chair, receive the approval of the Associate Dean and pay the fee for each of the semesters during which the residency was void.

Academic Performance

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.

2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms.

Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms. Any student who remains in academic probation for two consecutive terms may be considered for dismissal from the program.

3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

5. A maximum of eight (8) hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

**Degree Requirements**

The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.

3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.

4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.

5. The MEng degree cannot be conferred prior to the BS degree.

**Admission Standards**

Since the Electrical Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Electrical Engineering bachelor degree program at Speed School.

The application form is available online at louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication.

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post conferral of their baccalaureate degree;

2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;

3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.

A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

**Program Requirements**

The Master of Engineering in Electrical and Computer Engineering degree requires the following over and above the Bachelor of Science in Electrical and Computer Engineering Degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 510 &amp; ECE 511</td>
<td>Computer Design</td>
<td>4</td>
</tr>
<tr>
<td>ECE 515 &amp; ECE 514</td>
<td>Introduction to VLSI Systems</td>
<td>4</td>
</tr>
<tr>
<td>ECE 516</td>
<td>Microcomputer Design</td>
<td>4</td>
</tr>
<tr>
<td>ECE 520 &amp; ECE 521</td>
<td>Digital Signal Processing</td>
<td>4</td>
</tr>
<tr>
<td>ECE 533 &amp; ECE 534</td>
<td>Integrated Circuit Design</td>
<td>4</td>
</tr>
</tbody>
</table>

The Master of Engineering degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the Master of Engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

A maximum of eight (8) credit hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

1 Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis or paper, are 600-level.

2 A minimum of twelve (12) hours must be classified as Design Electives. Design Electives must be chosen from the approved list of regular courses (see below).

3 ECE electives must be chosen from an approved list

4 ECE 697 Master of Engineering Thesis or Paper in Electrical Engineering is an elective for a total of 6 credit hours. For the thesis/paper option, a student is urged to select both an approved MEng thesis/paper topic and the director and members of the thesis/paper committee during the first term of graduate studies. The thesis/paper director must give approval for enrollment in ECE 697.

5 Technical electives can be ECE or non-ECE courses. Technical electives must be approved by the department. A maximum of six (6) hours of non-ECE courses will count toward the MEng degree. Non-ECE technical electives must be approved by the department.

**Design Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE Design Electives (see list below)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>18 hours from the following:</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>ECE Electives (see list below)</td>
<td></td>
<td>1,3,4</td>
</tr>
<tr>
<td>Technical Electives</td>
<td></td>
<td>1,5</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 30

**Course Requirements**

The guidelines for Master of Engineering Thesis or Paper in Electrical Engineering are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.
**ECE electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 500</td>
<td>Special Topics in Computer Communications and Networks</td>
<td>3</td>
</tr>
<tr>
<td>ECE 518</td>
<td>Fundamentals of Computer Communications and Networks</td>
<td></td>
</tr>
<tr>
<td>ECE 523</td>
<td>Introduction to Biometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 526</td>
<td>LabVIEW for Electrical Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ECE 530</td>
<td>Introduction to Random Processes and Estimation Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECE 531</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 532</td>
<td>Electromechanical System Designs for Home Appliances</td>
<td>4.5</td>
</tr>
<tr>
<td>ECE 540</td>
<td>Fundamentals of Lasers</td>
<td>3</td>
</tr>
<tr>
<td>ECE 541</td>
<td>Engineering Optics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ECE 542</td>
<td>Physical Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 543</td>
<td>Fundamentals of Microfabrication and MEMS</td>
<td>3</td>
</tr>
<tr>
<td>ECE 545</td>
<td>Optical Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ECE 569</td>
<td>Intermediate Electromagnetic Fields and Waves</td>
<td>3</td>
</tr>
<tr>
<td>ECE 581</td>
<td>Electric Machines and Drives</td>
<td>3</td>
</tr>
<tr>
<td>ECE 582</td>
<td>Power System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECE 600</td>
<td>Special Topics in Electrical &amp; Computer Engineering</td>
<td>1-6</td>
</tr>
<tr>
<td>ECE 611</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ECE 613</td>
<td>Computational Intelligence Methods for Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECE 614</td>
<td>Deep Learning</td>
<td>3</td>
</tr>
<tr>
<td>ECE 632</td>
<td>Semiconductor Principles</td>
<td>3</td>
</tr>
<tr>
<td>ECE 638</td>
<td>The MOSFET</td>
<td>3</td>
</tr>
<tr>
<td>ECE 640</td>
<td>Introduction to Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECE 641</td>
<td>Medical Imaging Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 642</td>
<td>Fiber Optics and Integrated Optical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 643</td>
<td>Introduction to Biomedical Computing</td>
<td>3</td>
</tr>
<tr>
<td>ECE 645</td>
<td>Computer Vision Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ECE 647</td>
<td>Fundamentals of Optoelectronics and Photonics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 651</td>
<td>Communication System Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 652</td>
<td>Information Theory and Coding</td>
<td>3</td>
</tr>
<tr>
<td>ECE 653</td>
<td>Digital Communications</td>
<td>3</td>
</tr>
<tr>
<td>ECE 654</td>
<td>Advanced Voice/Data Networks</td>
<td>3</td>
</tr>
<tr>
<td>ECE 655</td>
<td>Pattern Recognition and Machine Intelligence Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ECE 661</td>
<td>Sampled-Data Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 662</td>
<td>Introduction to Optimum Control</td>
<td>3</td>
</tr>
<tr>
<td>ECE 664</td>
<td>Modern Adaptive Control</td>
<td>3</td>
</tr>
<tr>
<td>ECE 665</td>
<td>Theory of Nonlinear Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 674</td>
<td>Nanotechnology</td>
<td>3</td>
</tr>
<tr>
<td>ECE 675</td>
<td>Nanostructure Self-Assembly</td>
<td>3</td>
</tr>
<tr>
<td>ECE 676</td>
<td>Foundations of Polymer MEMS</td>
<td>3</td>
</tr>
<tr>
<td>ECE 682</td>
<td>Advanced Power System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECE 697</td>
<td>Master of Engineering Thesis or Paper in Electrical Engineering</td>
<td>6</td>
</tr>
</tbody>
</table>

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**Electrical Engineering (MS)**

Master of Science in Electrical Engineering (EE MS)

Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)

Department/Program Webpage (https://louisville.edu/speed/electrical)

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**Program Information**

**General Information**

The MS degree program is intended for persons having an accredited baccalaureate degree in Electrical Engineering, but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background coursework.

Students interested in the MS degree program should consult the Director of Graduate Studies in the Department of Electrical and Computer Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award master's degrees.

**Academic Performance**

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing Section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.
All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director.

**Degree Requirements**

The following degree requirements are mandatory of all Master of Science candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Masters students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
4. Student has six years after their admission to the MS program to complete their degree.

The requirements for the Master of Science degree are discussed in more detail in the Degree Requirements (p. 804) section of this catalog.

**Admission Standards**

The admission standards for the master of science program in electrical engineering are as follows:

1. All admission applications for the program shall include:
   - A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   - An application fee,
   - Results from the Graduate Record Examination (GRE),
   - At least two letters of recommendation, and
   - Official transcript(s) for all previous post-secondary coursework.
   All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
3. The successful applicant will typically have an undergraduate grade point average of 3.00 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.
5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in a foundational subject material.
6. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.
7. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed school associate dean for academic affairs.

**Program Requirements**

Remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background. The minimum curricular requirements for the master’s program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE Electives</td>
<td>Master of Science Thesis or Paper in Electrical Engineering</td>
<td>15</td>
</tr>
<tr>
<td>Technical Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ECE 690</td>
<td>Master of Science Advanced Level Independent Project</td>
<td>3</td>
</tr>
<tr>
<td>ECE Electives</td>
<td>Course-Only Option</td>
<td>3</td>
</tr>
<tr>
<td>ECE Electives</td>
<td>Project Option</td>
<td>9</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

The master of science degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements and all academic work attempted in graduate studies.

1. Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis, are 600-level; at least 15 credit hours of coursework must be in ECE.
2. Technical Electives can be ECE or non-ECE courses. Technical Electives must be approved by the department.
3. For the thesis/paper option, a student is required to select both an approved MS thesis/paper topic and the director and members of the thesis/paper committee during the first term of Graduate Studies. The thesis/paper director must give approval for enrollment in ECE 690.
4. Must include a course from a list of approved research/project courses, maintained by the Department.

**Electrical Engineering (PhD)**

**Doctor of Philosophy in Electrical Engineering (EE PHD)**

Unit: Unit: Speed School of Engineering (GS)

Department: Electrical Engineering

Program Webpage (https://louisville.edu/speed/electrical)
Program Information

General Information

The PhD degree program is intended for persons having an accredited masters degree in electrical engineering. Students interested in the PhD degree program should consult the Director of Graduate Studies in the Department of Electrical and Computer Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award doctoral degrees.

Academic Performance

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing section (p. 802) within this catalog in regard to Academic Probation.
3. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director. Students who seek to return after such a period of time must apply for readmission by completing a University of Louisville graduate application. If admitted, the student will be subject to catalog requirements in effect at the time of readmission.

Degree Requirements

The award of a Doctor of Philosophy degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. The following degree requirements are mandatory of all doctoral candidates:

1. The Program of Study must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.
2. At least two years of study must be spent at the University of Louisville.
3. One year must be spent in full-time residency (a minimum of 18 credit hours within a 12-month period or four terms of continuous part-time enrollment).
4. The applicant for a Doctor of Philosophy degree must pass a qualifying examination and complete all course hours and research hours to be admitted into candidacy.
5. Admission to candidacy must not be later than the end of the ninth month prior to the awarding of the degree. Students who are enrolled in Doctoral Candidacy are considered full-time students. Enrollment in Doctoral Candidacy status must be continuously maintained year round (i.e. Fall, Spring, and Summer) until the degree is awarded.
6. A dissertation proposal defense is required of all candidates.
7. A dissertation is required of all candidates.
8. All candidates must pass a final oral examination. This is to be a defense of the dissertation and a demonstration of the candidate’s mastery of his/her field.
9. All candidates must have their research published in a peer-reviewed conference or journal.
10. Ordinarily, the equivalent of three years of full-time graduate study is a minimum. However, the candidate must complete all requirements for the degree within four calendar years after passing the qualifying examination.

The requirements for the Doctor of Philosophy degree are explained in more detail in the Degree Requirements section (p. 804) of this catalog.

Admission Standards

The admission standards for the PhD program in electrical engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies
   b. An application fee
   c. Results from the Graduate Record Examination (GRE)
   d. At least two letters of recommendation
   e. Official transcript(s) for all previous post-secondary coursework.
      All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum degree requirement for admission is an accredited master’s degree in electrical engineering or closely related field.
3. The successful applicant will typically have an undergraduate grade point average of 3.00 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.
5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in a foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.
6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the ECE Associate Chair and the Speed School Associate Dean for Academic Affairs.
7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

Program Requirements

It is expected that the student will complete a master’s degree before being admitted to the PhD Program.
The minimum curricular requirements for the doctoral program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses - Post Bac</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved Master's Level Course Work</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Technical Electives (minimum of 15 hours)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ECE 700: Dissertation Research in EE</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

Candidates for the Doctor of Philosophy degree must have a minimum final cumulative grade point average of 3.00 for all academic work attempted in Graduate Studies

Technical Electives can be ECE or non-ECE courses. Technical Electives must be approved by the department

### Elementary Education (RANK1)

**Rank 1 Program in Elementary Education Advanced Practitioner**

Unit: College of Education and Human Development (http://louisville.edu/education) (GE)

Department: Early Childhood and Elementary Education (http://louisville.edu/education/departments/ecee)

Program Webpage (https://louisville.edu/education/degrees/rank)

### Program Information

**Rank 1 programs are not degree programs.**

Rank 1 programs are planned graduate-level programs designed for Kentucky teachers seeking rank change for salary purposes. They are recognized only in the state of Kentucky. By state regulation, Rank 1 status is sixty (60) semester hours of approved graduate credit including a master’s degree.

Teachers who complete a Rank 1 program may obtain a Rank change for salary purposes in Kentucky. Through a Rank 1 program, teachers may increase their depth of knowledge in their teaching areas or in additional areas of certification, as appropriate.

### Admission Requirements

Students may apply to the program by first going to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply) website.

Admission requirements include the following credentials:

- Official transcripts with a GPA of 2.75 in the bachelor’s degree and a GPA of 3.0 in the master’s degree.
- Teaching certificate in Elementary Education and a master’s degree/
  Rank II
- TOEFL (Students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement)
- Signed Professional Code of Ethics/Technology User Agreement

Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.

Please have transcripts sent to:

**University of Louisville**

School of Interdisciplinary and Graduate Studies

Houchens Bldg. Room 105

Louisville, KY 40292

If transcripts are sent electronically, please have them sent to the following email: gradadm@louisville.edu.

### Program Requirements

#### Rank I Program in Elementary Education Advanced Practitioner

(Teachers Who Have Earned a Master’s Degree/Rank II)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inquiry</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDAP 639</td>
<td>Education Research in P-12 Setting</td>
<td></td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics</td>
<td></td>
</tr>
<tr>
<td>Advocacy (Professional Leader)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leadership</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDAP 624</td>
<td>Curriculum Theory</td>
<td></td>
</tr>
<tr>
<td>EDAP 637</td>
<td>Using Assessment to Improve Student</td>
<td></td>
</tr>
<tr>
<td>Achievement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDAP 677</td>
<td>Developing Collaborative Groups: Facilitating, Coaching and Mentoring</td>
<td></td>
</tr>
<tr>
<td>ELFH 636</td>
<td>Shaping School Culture and Community</td>
<td></td>
</tr>
<tr>
<td>Diversity</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTP 503</td>
<td>Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds</td>
<td></td>
</tr>
<tr>
<td>EDAP 521</td>
<td>Teaching English Learners in the Classroom</td>
<td></td>
</tr>
<tr>
<td>EDAP 638</td>
<td>Instructional Strategies for Diverse Learners</td>
<td></td>
</tr>
<tr>
<td>EDAP 642</td>
<td>Literacy Learning and Cultural Differences</td>
<td></td>
</tr>
<tr>
<td>Area of Emphasis</td>
<td></td>
<td>12-18</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>0-6</td>
</tr>
<tr>
<td>Action (Problem Solver)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDAP 681</td>
<td>Teacher Leadership in Practice</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Minimum of 15 credit hours in 600-level courses is required.

Up to 15 credit hours of graduate credit may be transferred to the Rank I program as long as the student will have completed 60 credit hours of approved graduate credit including a Masters degree at the end of the Rank I program. Transfer credit must be officially accepted by the advisor, and final acceptance is dependent upon receipt of official transcripts.

In the Rank 1 program, at least 15 credit hours of new graduate coursework must be taken at the University of Louisville.

To complete the program, a minimum grade point average of 3.0 is required. No credit shall be accepted for a grade lower than a B-minus.

#### Midpoint Requirement

Candidates are required to submit a mid-program performance assessment at the completion of 15 credit hours of coursework. The
faculty advisor will assess the candidate’s performance assessment, which must be at the Exemplary or Target level. The performance assessment must address content, classroom environment, teaching, assessment, and reflection, and include an artifact (such as a video) to document professional learning.

Exit Requirements
Hallmark Assessment Task for EDAP 681 or equivalent project that demonstrates proficiency in the Kentucky Teacher Performance Standards.

Engineering Management (MEng)

Master of Engineering in Engineering Management (EM MEN)
Unit: Speed School of Engineering (http://louisville.edu/speed) (SP)
Department: Industrial Engineering (http://louisville.edu/speed/industrial)
Program Webpage (https://louisville.edu/speed/industrial/gradStudies/mem)

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-engineering-in-engineering-management).

The Department of Industrial Engineering of the J.B. Speed School of Engineering offers an online program in Engineering Management. The program is designed to build upon the mathematical and analytical expertise gained from prior engineering or related scientific education as well as upon his or her professional experience gained in the course of active engineering employment. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award master’s degrees.

Academic Performance
The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.
2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and 10 credit hours for summer terms.

Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and 10 credit hours for summer terms. Any student who remains in probationary status for two consecutive terms may be considered for dismissal from the program.

3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.

4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.
5. A maximum of six hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director.

Degree Requirements
The following degree requirements are mandatory of all Master of Engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Master’s students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
3. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.

Admission Standards
The admission standards for the MEng program in engineering management are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for University of Louisville graduate admission
   b. Application fee
   c. A minimum of two letters of recommendation
   d. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.
   e. International students whose primary language is not English must show English language proficiency by either:
   f. Total score of 80 or higher on the Test of English as a Foreign Language (TOEFL) Internet-based test or 6.5 or higher on the IELTS, or
   g. Successful completion of the exit examination for the advanced level of Intensive English as a Second Language Program at the University of Louisville, or
   h. Demonstration of a degree award from an acceptable English language institution

The minimum requirement for admission is the Bachelor of Science degree or its equivalent in engineering or related scientific field from an accredited institution. The minimum undergraduate grade point average
that will be considered for unconditional acceptance and admission to the program is 2.75 on a 4.00 scale.

Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.

Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School associate dean for academic affairs. This will allow consideration of special circumstances in which the potential for acceptable graduate performance has been clearly demonstrated by other means.

Program Requirements
The Master of Engineering in Engineering Management degree requires the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 613</td>
<td>Operations Management ²</td>
<td>3</td>
</tr>
<tr>
<td>EM 661</td>
<td>Engineering Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>EM Electives ¹</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Technical Electives ¹</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Candidates for the Master of Engineering degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements.

Additionally, the master of engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies. A maximum of six (6) credit hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses should not have been used to also satisfy BS degree requirements.

¹ Electives must be chosen so that at least one-half of the credits counted toward the degree, are 600-level. Technical Electives may be taken within or outside the Department and up to six (6) credit hours may be from Business Administration programs. All selections require the approval of the student’s faculty advisor.

² Students with a Bachelor’s degree in Industrial Engineering may replace EM 613 with any other EM Elective course.

English (MA)

Master of Arts in English (ENGLMA)
Unit: College of Arts and Sciences (GA)
Department: English
Program Webpage: louisville.edu/english/graduate/ma-in-english

Program Information
Mission Statement
The MA in English provides graduate training in literatures written in English, creative writing, and rhetoric and composition.

Goals for the MA are that students will:
1. Gain advanced knowledge of British, American, and other literary traditions, and
2. Write a thesis or culminating project in which they initiate and complete specialized research addressing a significant question in literary studies or rhetoric and composition, or produce a significant body of creative work.

Admission Requirements
MA with Graduate Teaching Assistant application: due January 5th

MA without Graduate Teaching Assistant application:
- Fall Semester: Due July 15th
- Spring Semester: Due December 1
- Summer Semester: Due April 15

All applicants should submit:
1. Online Graduate Application (http://louisville.edu/graduate/futurestudents/apply-materials/application)
2. Complete official transcripts of all college level work
3. Two academic letters of recommendation with discursive comments
4. Score report on the Graduate Record Examination General Test (from within the last 5 years)
5. Critical writing sample (~10 pages)
6. International students must also submit official reports of the TOEFL or IELTS examination
7. Creative writing sample (optional and in addition to the critical writing sample)
8. GTA Application (PDF) (http://louisville.edu/english/graduate/forms/ma-gta-application) (January 5th deadline only)
Program Requirements

The Master of Arts in English requires 30 credit hours of academic work at the graduate level. In addition to fulfilling the core requirements, students may take additional work in literary studies, creative writing, or rhetoric and composition. Students may take no more than three 500-level courses. Creative writing courses (including up to six credit hours of thesis guidance) may total no more than 15 credit hours. Students may count one elective outside the Department of English toward their degree upon approval by the director of graduate studies. Student must also demonstrate proficiency in one language other than English. Detailed requirement information can be found in the English Department Graduate Program Guidelines.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 601</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 615</td>
<td>Introduction to Old English</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 515</td>
<td>Contemporary Theories of Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in British Literature of the Romantic Period - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in British Literature of the Victorian Period - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Restoration and Eighteenth-Century British Literature - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Eighteenth-Century American Poetry and Prose</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Nineteenth-Century British Poetry and Prose</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Nineteenth-Century American Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in American Literature, 1910-1960 - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in American Literature, 1960 - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>The Harlem Renaissance - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>American Authors: 1900-Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Contemporary Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Seminar in Modern British Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Modern British Literature of the Romantic Period - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Modern British Literature of the Victorian Period - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Post-Colonial and/or Ethnic Literature - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Contemporary British Literature of the Romantic Period - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Contemporary British Literature of the Victorian Period - CUE</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 545</td>
<td>Studies in Post-Colonial and/or Ethnic Literature - CUE</td>
<td>3</td>
</tr>
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<td>Studies in Post-Colonial and/or Ethnic Literature - CUE</td>
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<tr>
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</table>

English Rhetoric and Composition (PhD)

Doctor of Philosophy in English Rhetoric and Composition (ERC PHD)

Unit: Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)

Department: English

Program Webpage (https://louisville.edu/english/graduate/ph-d-in-rhetoric-composition)

Program Information

Mission Statement

The PhD in Rhetoric and Composition provides graduate training in the history and theory of rhetoric; theory and empirical research in composition; an area of literary study; and the relation of rhetoric and composition to allied fields (e.g., critical theory, cultural studies, linguistics).

Goals for the PhD are that students will:

1. Gain specialized and current disciplinary knowledge;
2. Write a dissertation in which they initiate and complete specialized research that addresses an original and significant question in rhetoric and composition; and
3. Acquire experience and expertise as writing teachers.

Admission Requirements

Application Due: January 5 - fall admission only

All applicants should submit:
1. Online Graduate Application (http://louisville.edu/graduate/apply).
2. A written statement of no more than 1,000 words detailing the applicant’s professional goals in the field of rhetoric and composition.
3. Complete official transcripts of all college level work.
4. Three academic letters of recommendation.
5. Official scores on the Graduate Record Examination General Test (From within the last 5 years).
7. Application for Graduate Teaching Assistantship. (http://louisville.edu/english/graduate/forms/PhDGTAApplicationII.pdf)
8. International students must submit official scores of at least 600 (paper test) or 210 (computer test) on the TOEFL Examination; IELTS scores are also considered in lieu of the TOEFL.

Degree Requirements

All doctoral students are expected to complete a minimum of 45 graduate credit hours; demonstrate proficiency in one language other than English; successfully complete the Modern and Contemporary Rhetoric and Composition exam and the Specified Literature Area exam; complete and defend a dissertation; and participate in a year-long supervised teaching-internship. (Graduate teaching assistants automatically fulfill the professional requirement once they have completed one successful year as a graduate teaching assistant.)

More information on requirements can be found in the English Department Graduate Program Guidelines (http://louisville.edu/english/graduate/graduate-program-guidelines-2).

Graduate-level English courses beyond those listed may count towards requirements depending on the topics covered. Detailed course descriptions (http://louisville.edu/english/graduate/graduate-course-descriptions), available on the English Department website, will provide this information and can be discussed during advising with the director of graduate studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 602</td>
<td>Teaching College Composition</td>
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</tr>
<tr>
<td>ENGL 620</td>
<td>Research in the Composition</td>
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</tr>
<tr>
<td>ENGL 689</td>
<td>Directed Reading for Comprehensive Examinations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 667</td>
<td>Assessing and Responding to Student Writing</td>
<td>3</td>
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<tr>
<td>or ENGL 670 Composition Theory and Practice</td>
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Pedagogy and Program Administration

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<tr>
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<tr>
<td>ENGL 603</td>
<td>Studies in Genres</td>
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<tr>
<td>or ENGL 671 History of Rhetoric I</td>
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<td></td>
</tr>
<tr>
<td>or ENGL 672 History of Rhetoric II</td>
<td></td>
<td></td>
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<tr>
<td>or ENGL 673 Rhetoric and Textual Analysis</td>
<td></td>
<td></td>
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<td>or ENGL 676 The Rhetoric of Science</td>
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Rhetoric

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<tr>
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<tbody>
<tr>
<td>ENGL 603</td>
<td>Studies in Genres</td>
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<tr>
<td>or ENGL 605 Teaching Literature: Theory and Practice</td>
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<tr>
<td>or ENGL 606 Creative Writing I</td>
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<tr>
<td>or ENGL 607 Creative Writing II</td>
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Literature

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGL 691</td>
<td>Contemporary Theories of Interpretation</td>
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</tr>
<tr>
<td>or ENGL 692 Topics in Interpretive Theory since 1900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 603</td>
<td>Studies in Genres</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 690</td>
<td>Dissertation Research</td>
<td>12</td>
</tr>
</tbody>
</table>

Minimum Total Hours 45

1 Students must take either ENGL 691 or ENGL 692 as part of the Literature requirement. The remaining Literature hours may be selected from any of the additional courses listed, in consultation with the student’s advisor.

Entrepreneurship (PhD)

Doctor of Philosophy in Entrepreneurship (ENTRPHD)

Unit: College of Business (http://business.louisville.edu) (GB)
Department: Entrepreneurship (http://business.louisville.edu/eship)
Program Webpage (https://business.louisville.edu/entrepreneurshipphd)

Program Information

Admission to the program is highly competitive. It is based on an applicant’s past graduate and undergraduate school records, score on the graduate management admissions test (GMAT), prior experiences, a personal statement and letters of recommendation. Applicants are only admitted in fall semesters of odd years (2017, 2019, 2021 etc.).

No specific graduate or undergraduate major is required. However, an MBA is preferred. A student who does not have a master’s degree in business may be required to complete a set of courses equivalent to a “core” that is covered in an MBA program. Questions about prerequisites should be directed to the program director. This is a full-time program, requiring year-round study and a 20 hour/week paid research assistantship. Typically, students can finish their coursework in two years and the program in four-to-five years, subject to progress on a dissertation. Students generally take about 19 courses consisting of seminars and directed readings and/or research. A student’s curriculum choices are supervised and approved by an advisory committee.

All required courses are offered on a biennial basis in the Fall, Spring, and Summer semesters, along with a variety of elective courses.
Admission Requirements

Admission to the program is highly competitive. Applicants are only admitted in fall semesters of odd years (2017, 2019, 2021, etc.). This is a full-time program, requiring year-round study and a 20 hour/week paid research assistantship. Typically, students can finish their coursework in two years and the program in four-to-five years, subject to progress on a dissertation. Students generally take about 19 courses consisting of seminars and directed readings and/or research. A student's curriculum choices are supervised and approved by an advisory committee.

The following application materials are required:

- Official transcripts of all undergraduate and graduate work. An undergraduate degree is required. No specific graduate or undergraduate major is required. However, an MBA is preferred. A student who does not have a master's degree in business may be required to complete a set of courses covered in an MBA program.
- Official GMAT score. A GMAT score is required that is no more than two years old from date of application. A GRE score may be substituted for a GMAT score where GMAT testing is not available.
- Two letters of recommendation.
- Resume or CV.
- Personal statement about the applicant's interest in entrepreneurship research.
- Applicants with credentials from foreign universities must submit them for evaluation to one of the following services, which will issue a report that will become part of the applicant's application:
  - World Education Services www.wes.org (http://www.wes.org)
  - Education Credentials Evaluator ece.org (http://ece.org)
  - Applicants with a degree from a non-English speaking university or those for whom English is not their native language must submit a TOEFL score. ets.org/ibt/register.

All required courses are offered on a biennial basis in the fall, spring and summer semesters.

Program Requirements

The goal of the curriculum is to produce academic scholars who will present papers at professional conferences, publish papers in academic journals, and teach at the university level. We anticipate that students will be successful academics at leading universities. Because of this, students serve as research assistants during two of their four years in the program. Students teach during the last two years in the program.

After passing qualifying exams, required courses, and writing required papers, students proceed into candidacy and write their doctoral dissertations in their remaining years of the program.

The following are the current curriculum requirements for the Entrepreneurship PhD. Because the state of the knowledge in the field changes, both the content and sequencing of these course requirements may change in order to address topics of current interest. Faculty may change as well.

Applicants should contact the Program Director, Dr. James O. Fiet, at fiet@louisville.edu (fiet@louisville.edu) or (502) 645-2536, if they have questions about the curriculum requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENTR 701</td>
<td>Foundations in Entrepreneurship Research</td>
<td>3-12</td>
</tr>
<tr>
<td>ENTR 702</td>
<td>Seminar in Research Design I</td>
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</tr>
<tr>
<td>ENTR 703</td>
<td>Venture Capital Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 721</td>
<td>Entrepreneurial Discovery Seminar</td>
<td>1.5</td>
</tr>
<tr>
<td>ENTR 722</td>
<td>Philosophy of Science</td>
<td>1.5</td>
</tr>
<tr>
<td>ENTR 723</td>
<td>Seminar in Organizational Behavior/Human Resources in Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 724</td>
<td>Seminar in Entrepreneurship from a Strategic Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 731</td>
<td>Independent Study I</td>
<td>3-9</td>
</tr>
<tr>
<td>ENTR 732</td>
<td>Independent Study II</td>
<td>3-9</td>
</tr>
<tr>
<td>ENTR 734</td>
<td>Independent Study to Prepare Second-Year Paper</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 735</td>
<td>Quantitative Approach to Entrepreneurship Research</td>
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<tr>
<td>ENTR 741</td>
<td>Seminar in Research Design II</td>
<td>3</td>
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<tr>
<td>ENTR 742</td>
<td>Seminar in Entrepreneurship from an Economic Perspective</td>
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<tr>
<td>ENTR 743</td>
<td>Seminar in Entrepreneurship from a Psychological Perspective</td>
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<tr>
<td>ENTR 751</td>
<td>Seminar in Current Topics in Entrepreneurship</td>
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<tr>
<td>ENTR 752</td>
<td>Seminar in a Sociological Perspective on Entrepreneurship</td>
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<td>ENTR 753</td>
<td>Seminar in Family Business</td>
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<tr>
<td>ENTR 754</td>
<td>Seminar in Social Entrepreneurship</td>
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<tr>
<td>ENTR 760</td>
<td>Entrepreneurship Directed Readings I</td>
<td>1-6</td>
</tr>
<tr>
<td>ENTR 762</td>
<td>Entrepreneurship Directed Readings II</td>
<td>1-6</td>
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<tr>
<td>ENTR 763</td>
<td>Entrepreneurship Directed Readings III</td>
<td>1-6</td>
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<tr>
<td>PSYC 610</td>
<td>Advanced Statistics I</td>
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<tr>
<td>DOCT 600</td>
<td>Doctoral Candidacy</td>
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</table>

Minimum Total Hours: 61.5

Environmental Engineering (CERT)

Graduate Certificate in Environmental Engineering (ENVCECEESP)
Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)
Department: Civil and Environmental Engineering (http://louisville.edu/speed/civil)
Program Webpage (https://louisville.edu/speed/academics/programs/certificates)

Program Information

Students interested in increasing their knowledge of Environmental Engineering can take a series of courses and earn a certificate. The certificate program offers courses in the following disciplines:

- Civil and Environmental Engineering
- Chemistry
- Biology
- Mechanical Engineering
- Chemical Engineering

This is a certificate program, not a degree program. The Graduate Certificate in Environmental Engineering is awarded only with the completion of a graduate degree program (MEng, MS, or PhD) at Speed School of Engineering.
Admission Requirements

Admission to the Speed School of Engineering division of higher studies (MEng) or the graduate school (MS or PhD) in Engineering.

All admission applications for the graduate certificate program shall include the following:

- Application for the School of Interdisciplinary and Graduate Studies;
- Application fee;
- Official transcript(s) for all previous post-secondary coursework—all transcripts not in English must be certified as authentic and translated verbatim into English;
- A baccalaureate degree (or equivalent) from an accredited institution or current enrollment in an undergraduate Speed School program.

All students enrolled in a graduate certificate program are expected to make steady and satisfactory progress toward the completion of the certificate. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the certificate program. Students who seek to return after such a period of time must contact the graduate program director.

Certificate Requirements

The following certificate requirements are mandatory for all graduate certificate candidates:

1. The certificate program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.
2. Completion of a graduate degree program at Speed School of Engineering (MEng, MS, or PhD).
3. Graduate certificate students must take all certificate coursework at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.

Program Requirements

Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Environmental Engineering Electives (500-level, see below)</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Environmental Engineering Electives (600-level, see below)</td>
<td>6-12</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 12

*Students must complete 12 credit hours, with at least 6 hours at the 600 level. Courses are to be selected from the following lists. All prerequisites must be met. Graduate courses not shown in the lists below require approval from the Certificate Program Director.

Certificate courses do not constitute a degree program, but may be applied toward MEng, MS, or PhD degree requirements.

Other requirements

Completion of a graduate degree program at Speed School of Engineering (MEng, MS, or PhD).

Approved Environmental Engineering Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approved 500-level Environmental Engineering Electives</td>
<td>0-6</td>
</tr>
</tbody>
</table>

*Students may take up to 6 hours from the following:

- CEE 570 Applied Hydraulics

Epidemiology (MS)

Master of Science in Epidemiology (EPIDMSE)

Unit: School of Public Health and Information Sciences (GH)
Department: Epidemiology
Program Webpage (https://louisville.edu/sphis/departments/epidemiology-population-health/academics)

Program Information

The Master of Science (MS) in Epidemiology program is designed to prepare students for the PhD program in Public Health Sciences with a concentration in Epidemiology. The MS in Epidemiology is offered by the Department of Epidemiology and Population Health.

Competencies

To graduate, students in the MS program in Epidemiology must maintain a GPA of 3.0 or higher and demonstrate the following competencies:

1. Mastery of the principles of epidemiologic, observational study design, including:
   - The merits and limitations of cross-sectional, retrospective and prospective designs
• Methods of disease surveillance and case ascertainment
• Methods of population-based sampling
• Sample size and statistical power calculation
• Issues in the measurement of exposure and disease transmission
• Identification and correct interpretation of potential biases in study design

2. Knowledge of the socioeconomic and geographic distribution, risk factors, and etiology of major acute, infectious and chronic morbidity and mortality.

3. Mastery of basic methods of analysis of epidemiologic data, including:
   • Measures of disease frequency, prevalence, and incidence
   • Methods for adjusting rates for age, gender, etc.
   • Measures of association, odds ratio, relative risk
   • Control of confounding and effect modification through stratification and statistical control
   • Modeling in multiple logistic regression
   • Principles of survival analysis
   • Correct interpretation of results with regard to issues of error, bias and criteria for causality

These competencies are demonstrated through the successful completion of the coursework and the design, execution, documentation, and presentation of the research for the student’s thesis.

Curriculum
The program is designed as a two-year program of coursework and thesis research and preparation. The student is expected to develop and plan his or her thesis research prior to the final semester in which the majority of the actual research is done.

Faculty Advisor
Upon admission to the MS program, each student is assigned a faculty advisor by the department chair or program director. Students and/or advisors who wish to change their assigned relationship must make a written request to the department chair or program director.

The student and his or her faculty advisor work together to develop a program of study that recognizes the student’s research interests and core elements of modern epidemiology and its breadth and multidisciplinary nature.

Admission Requirements
Students with a prior baccalaureate degree, or an advanced degree in an appropriate field of study, from a regionally accredited university or college are eligible for the MS program in Epidemiology.

Previous coursework in mathematics and/or statistics and biological or health sciences (for example, biology, biochemistry, anatomy, physiology, and/or microbiology) is strongly recommended. Applicants who are judged to not have sufficient prior coursework or experience in these areas may be required to take additional coursework.

The following are additional requirements for admission:
• Undergraduate GPA at least 3.0 on 4.0 scale
• Official GRE scores taken within the past five years. Score greater than the 50th percentile on each of the quantitative and verbal sections is recommended.
• If applicable, Test of English as a Foreign Language (TOEFL) score in at least 60th percentile.

Program Requirements
Degree requirements include required coursework in epidemiology, elective coursework in biostatistics and in public health sciences, and a thesis.

38 total credit hours:
• 14 credit hours of required coursework
• 15 credit hours of elective coursework
• 9 credit hours of thesis research

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
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<tr>
<td>Fall</td>
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<tr>
<td>PHEP 618</td>
<td>Epidemiologic Methods II</td>
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<tr>
<td>PHEP 622</td>
<td>Population Pathology</td>
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<td>PHEP 648</td>
<td>Data Management and Analysis for Epidemiology I</td>
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<td>Elective course</td>
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<tr>
<td>Hours</td>
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<tr>
<td>Spring</td>
<td></td>
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<tr>
<td>PHEP 702</td>
<td>Epidemiologic Research Management</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 701</td>
<td>Advanced Epidemiologic Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 649</td>
<td>Data Management and Analysis for Epidemiology II</td>
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<tr>
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<tr>
<td>Hours</td>
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<tr>
<td>Year 2</td>
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<td>Fall</td>
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</tr>
<tr>
<td>PHEP 666</td>
<td>Masters Independent Study in Epidemiology and Population Health</td>
<td>3</td>
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<tr>
<td>Hours</td>
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<td></td>
</tr>
<tr>
<td>Spring</td>
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<tr>
<td>Elective course</td>
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<td>3</td>
</tr>
<tr>
<td>PHEP 666</td>
<td>Masters Independent Study in Epidemiology and Population Health</td>
<td>6</td>
</tr>
<tr>
<td>Hours</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 38

Electives
Program requirements include five elective courses, of which at least one is in epidemiology (PHEP) and each of the remaining four in public health (PHxx). All epidemiology courses above PHEP-602 are pre-approved. All courses offered by other departments and programs in the school are also pre-approved elective courses in public health. Elective courses in epidemiology and biostatistics (PHST) are strongly encouraged.

Students may petition to take elective courses that are not pre-approved with approval of the student’s faculty advisor and the program director or chair of the department or designee.

Selection of electives is done by the student and his or her faculty advisor with approval of the program director or chair of the department.
Elective courses may require prerequisites or permission of the course instructor.

**Thesis**

A thesis is required of a candidate for the degree of Master of Science in Epidemiology. It is to be an original work of professional quality and the basis for one or more potentially publishable papers.

**Thesis Committee**

The thesis is read by a reading committee, chaired by the student’s faculty advisor, and appointed by the dean of the school upon the recommendation of the chair of the department. This committee consists of three members and must include one representative of an allied department. The thesis must be approved by the committee and the chair of the department.

**Thesis Proposal**

The thesis proposal is to be developed in written form and presented to the thesis committee for approval. The thesis topic is to be one or more of the following:

- Critical review of the contemporary epidemiologic literature on a specific disease, risk factor, or health related condition.
- Meta-analysis of results from several epidemiologic studies of a specific disease.
- Research report on analysis of collected data.
- Evaluation of epidemiologic statistical methodology.

**Thesis Preparation**

The thesis is to be prepared in format and binding according to the guidelines established by the School of Interdisciplinary and Graduate Studies, available at louisville.edu/graduate/current-students/thesis-dissertation-information.

**Thesis Approval**

The thesis is to be submitted in completed form to the chair of the thesis committee at least fifteen days before the end of the term in which the candidate expects to be graduated, and the candidate is not eligible for the final oral examination until the thesis has been accepted by the committee.

The thesis committee schedules an oral examination of the candidate. The thesis is approved by a majority vote of the committee.

**Thesis Submission**

The following steps must be taken to submit the final copy of the thesis electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies and the department’s administrative assistant.
2. Submit as advised by the School of Interdisciplinary and Graduate Studies through the ThinkIR repository. The direction on submission will be provided upon review of the thesis by the School of Interdisciplinary and Graduate Studies.
3. The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.
4. Submit a signed signature page on white paper, with original signatures, to the School of Interdisciplinary and Graduate Studies.

A copy of the final, signed thesis must also be deposited with the department office.

**Exercise Physiology (MS)**

**Master of Science in Exercise Physiology (EXP MS)**

Unit: College of Education and Human Development (http://louisville.edu/education) (GE)

Department: Health and Sport Sciences (http://louisville.edu/education/departments/hss)

Program Webpage (https://louisville.edu/education/degrees/ms-ep)

**Program Information**

**General Program Information**

Students who complete the Master of Science degree in Exercise Physiology are prepared to pursue a number of career options. Graduates from our program have continued their education by completing the PhD degree in fields such as exercise physiology, physiology, biochemistry, while others continue to the MD. Many students have pursued careers in allied health fields such as nursing and physical therapy as well as in such fields as aviation physiology, cardiac rehabilitation, corporate wellness, and ergonomics.

Because many of our students seek to work in the fields of cardiac rehabilitation and corporate wellness, the curriculum is structured to satisfy the preliminary requirements for certification as "exercise technologist" or "exercise specialist" as set by the American College of Sports Medicine. The curriculum provides students the necessary knowledge base and coursework to satisfy entrance into the certification process (which is under the control of the American College of Sports Medicine and requires both a written and practical exam).

**Admission Requirements**

Admission will be based on a holistic approach using minimum GPA and GRE requirements, prior coursework (including GPA in science classes), experience, three letters of recommendation, resume, and a personal statement explaining interest in the program and long term objectives.

A variety of undergraduate majors are acceptable, including exercise science, biology, chemistry, physiology, nursing, etc.

In addition, the student must complete the application (http://louisville.edu/graduate/apply) procedure as required by the School of Interdisciplinary and Graduate Studies. Students are recommended to have earned a grade-point average of at least 2.75 on a 4-point scale in their undergraduate program. Average GRE scores for successful student usually range from composite scores of 293-310 (Verbal and
Quantitative sections combined) and 4.0-4.5 on the Analytical section. Admission to the program is competitive.

**Degree Requirements**

MS in Exercise Physiology students choose from multiple degree options: 1) a Thesis Option; 2) a Non-Thesis, Clinical Option; 3) a concentration in Strength and Conditioning with a Thesis Option; and 4) a concentration in Strength and Conditioning, Non-Thesis Option.

New applications to the Thesis Option of the Strength and Conditioning concentration are not being accepted at this time.

**Thesis Option**

*(with prior Organic Chemistry)*

The MS thesis option requires a minimum of 42 credit hours of course work, which includes six (6) credit hours devoted to completion of the thesis. Students in this option are required to actively participate in all phases of research within the laboratory. The thesis program requires two full years of study including the summer between the first and second years. To complete the MS in Exercise Physiology, a minimum of 23 credit hours must be at the 600 level or above.

**Admission Requirements: Organic Chemistry with Lab**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXP 501</td>
<td>Applied Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 601</td>
<td>Laboratory Methods in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PHZB 605</td>
<td>Systemic Physiology I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>11</strong></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXP 502</td>
<td>Principles of Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>EXP 500</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PHZB 606</td>
<td>Systemic Physiology II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>11</strong></td>
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<tr>
<td>Year 2</td>
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<tr>
<td>Fall</td>
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<tr>
<td>HSS 604</td>
<td>Research Methods in HSS</td>
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<tr>
<td>EXP 603</td>
<td>Seminar in Exercise Physiology</td>
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<tr>
<td>CHEM 645</td>
<td>Advanced Biochemistry I</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
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</tr>
<tr>
<td>Spring</td>
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<tr>
<td>CHEM 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
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<tr>
<td>EXP 699</td>
<td>Thesis</td>
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<tr>
<td></td>
<td><strong>Hours</strong></td>
<td><strong>10</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Minimum Total Hours</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

**Non-Thesis Clinical Option**

The MS non-thesis option emphasizes the use of exercise as a clinical intervention. This option is heavily slanted toward improved cardiovascular health and cardiovascular rehabilitation through the use of exercise.

Students in this option must complete a minimum of 36 credit hours of course work. The non-thesis program requires two full years of study including the summer between the first and second years.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 604</td>
<td>Research Methods in HSS</td>
<td>3</td>
</tr>
<tr>
<td>EXP 601</td>
<td>Applied Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 602</td>
<td>Principles of Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>EXP 600</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>EXP 601</td>
<td>Laboratory Methods in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 603</td>
<td>Seminar in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 605</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Non-thesis Option - Concentration in Strength and Conditioning**

No applications are being accepted.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 604</td>
<td>Research Methods in HSS</td>
<td>3</td>
</tr>
<tr>
<td>EXP 601</td>
<td>Applied Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 602</td>
<td>Principles of Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>EXP 600</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>EXP 601</td>
<td>Laboratory Methods in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 603</td>
<td>Seminar in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 605</td>
<td>Human Physiology</td>
<td>3</td>
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</table>

**Strength and Conditioning Concentration Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HSS 530</td>
<td>Nutrition and Athletic Performance</td>
<td>3</td>
</tr>
<tr>
<td>EXP 607</td>
<td>Neuromuscular Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 608</td>
<td>Strength and Conditioning I</td>
<td>3</td>
</tr>
<tr>
<td>EXP 609</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Minimum Total Hours</strong></td>
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</table>

**Strength and Conditioning Concentration Non-Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 530</td>
<td>Nutrition and Athletic Performance</td>
<td>3</td>
</tr>
<tr>
<td>EXP 607</td>
<td>Neuromuscular Exercise Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>
Franchise Management (CERT)

Graduate Certificate in Franchise Management
Unit: College of Business (https://business.louisville.edu)
Program Website (https://louisville.edu/online/programs/certificate-programs/franchise-management)

Program Information
This program can be completed entirely online (http://louisville.edu/online/programs/certificate-programs/franchise-management).

The Franchise Management Certificate is a 9-credit hour certificate that focuses on the unique skills and knowledge necessary to succeed as a franchisee—including acquiring, running, and growing franchise operations.

The curriculum was designed in close partnership with industry experts. The six accelerated, highly focused, 1.5-credit hour courses are designed for individuals who plan to become franchisees, as well as existing single-site franchisees who want to gain the skills and knowledge necessary to grow their franchise business.

The Franchise Management certificate can be taken in conjunction with the MBA program (p. 867). For students who are accepted into the MBA program, it will count towards fulfilling elective requirements in the MBA curriculum.

Admission Requirements
Students must have a bachelor’s degree from a regionally accredited university and a minimum undergraduate GPA of 2.0 to be admitted to the Franchise Management certificate program.

GMAT/GRE scores are not required for admission to the program.

Please note: Students who desire to complete an MBA in conjunction with the Franchise Management certificate must be separately admitted to the MBA program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRAN 601</td>
<td>Franchise Fundamentals</td>
<td>1.5</td>
</tr>
<tr>
<td>FRAN 610</td>
<td>Franchise Law</td>
<td>1.5</td>
</tr>
<tr>
<td>FRAN 620</td>
<td>Buying and Growing a Franchise</td>
<td>1.5</td>
</tr>
<tr>
<td>FRAN 630</td>
<td>Franchise Human Resources Infrastructure</td>
<td>1.5</td>
</tr>
<tr>
<td>FRAN 640</td>
<td>Leading Franchise Teams</td>
<td>1.5</td>
</tr>
<tr>
<td>FRAN 650</td>
<td>Building a Profitable Relationship with Your Franchisor</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Minimum Total Hours 36-39

To complete the program, students must have a minimum of a 3.0 cumulative grade point average.

French, Language and Literature (MA)

Master of Arts in French Language and Literature (FRENMA)
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Department: Classical and Modern Languages (http://louisville.edu/modernlanguages)
Program Webpage (https://louisville.edu/french)

Program Information

The MA program in French is not currently accepting applications for admission.

The mission of the Master of Arts in French, Language and Literature is to provide students who would like to explore professional opportunities in teaching, translation, international affairs, etc. or pursue their studies at the doctoral level, with an in-depth knowledge of the French language and the cultures of the French-speaking world, as part of a multidisciplinary approach to French Studies grounded in literature, linguistics, cultural studies and media studies.

Program Information

The Master of Arts in French Language and Literature requires 30 credit hours of academic work at the graduate level.

- It is possible to complete this program as part of a joint BA/MA program in French.
- Students must consult with the Director of Graduate Studies in French to take courses in place of the required courses listed below.
- Students must complete a minimum of 24 credit hours at the University of Louisville.
- As part of their graduate program, students are expected to spend at least one month in a French-speaking country, which they traditionally do during the summer between their first and second years. Modern Language Fund grants are available to assist students with the cost of their in-country study or work experience. Students can fulfill the requirement by participating in the long-standing summer Work-Exchange Program the University of Louisville has with our sister city of Montpellier, France. After consultation with the Director of Graduate Studies in French, it may be possible to find an appropriate substitution for this requirement.

Accelerated BA/MA Program

Students who wish to pursue an accelerated non-thesis master’s degree will be allowed to apply up to nine (9) credit hours of undergraduate coursework, taken for graduate credit, toward their graduate degree. An additional 21 credit hours of graduate coursework taken in addition will constitute the minimum number of credit hours for obtaining the non-thesis master’s in the accelerated BA/MA program.

Additional requirements and admission information can be found by clicking on the Admissions tab above.

Admission Procedures

Admission is on a rotating basis. Students must submit the following:

- Graduate admission application (http://louisville.edu/graduate/apply)
- Application fee
• Transcripts from all colleges/universities where undergraduate and/or graduate credit was earned
• Two letters of recommendation

GRE exam scores are NOT required for admission into the Master of Arts in French, Language and Literature (they are, however, required by the School for Interdisciplinary and Graduate Studies for the awarding of funded assistantships). We support holistic admission procedures.

Students may begin the program in fall (preferably), spring or summer.

### Accelerated BA/MA Program

Students who wish to pursue an accelerated non-thesis Master’s degree will be allowed to apply up to nine (9) credit hours of undergraduate coursework, 
*taken for graduate credit*, toward their graduate degree. An additional 21 credit hours of graduate coursework taken in addition will constitute the minimum number of credit hours for obtaining the non-thesis Master’s in the accelerated BA/MA program. The guidelines for this combined program are as follows:

1. Prior to applying for admission into the program, students must consult with both the French Undergraduate Advisor and the Director of Graduate Studies in French. They will then submit their application (http://louisville.edu/graduate/futurestudents/apply-materials) through the School of Interdisciplinary and Graduate Studies. It is strongly recommended that at least one of the supporting letters submitted with the application be from a French faculty member.

2. Students must:
   a. Apply for admission to this program no later than the end of the Junior year (a total of 90-degree applicable hours) and,
   b. Have completed FREN 320, FREN 321, FREN 322 with grades of 'B' or better.

3. The application will be reviewed by the French faculty. A 3.35 cumulative grade point average will be required for admission to the program.

4. Students may take a maximum of nine (9) credit hours for graduate credit, which will also count toward the requirements for the baccalaureate (BA) degree in French. The nine (9) credit hours must be from the following list: FREN 522, FREN 523, FREN 524, FREN 531, and FREN 552.

5. Students who enroll in the accelerated program will be non-thesis students and must adhere to all policies pertaining to Graduate Students in the Department of Classical and Modern Languages.

The MA in French, Language and Literature offers a thesis and a non-thesis option. All students are required to take FREN 611 and FREN 699; it is recommended that students take FREN 611 during their first semester in the program and FREN 699 during their last semester in the program.

Students who choose the thesis option will be required to take complete a minimum of six (6) courses selected from the rubrics below and three to six (3-6) credit hours of thesis credit (FREN 690). At least one course must be taken from each of the rubrics. Students who choose the non-thesis option will take a minimum of eight (8) courses with at least one course from each of the rubrics below. Students must earn a minimum of 30 credit hours to complete the degree.

### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 611</td>
<td>Teaching and Research Methods in French</td>
<td>3</td>
</tr>
<tr>
<td>FREN 699</td>
<td>Final Research Project</td>
<td>3</td>
</tr>
<tr>
<td>Language Skills</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Linguistics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Culture</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Media</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Thesis hours and/or elective hours chosen from rubrics below</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 30

### Rubrics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Skills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 523</td>
<td>Advanced Communication Skills (if appropriate)</td>
<td></td>
</tr>
<tr>
<td>FREN 524</td>
<td>Theory and Practice of Translation</td>
<td></td>
</tr>
<tr>
<td>FREN 600</td>
<td>Advanced French Stylistics</td>
<td></td>
</tr>
<tr>
<td>Approved elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linguistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 522</td>
<td>French Phonetics and Diction</td>
<td></td>
</tr>
<tr>
<td>FREN 601</td>
<td>Studies in French Linguistics</td>
<td></td>
</tr>
<tr>
<td>Approved elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Culture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 531</td>
<td>Special Topics in Literature and Cultural Studies</td>
<td></td>
</tr>
<tr>
<td>FREN 552</td>
<td>French Work: Exchange Research (or alternate work- or study-abroad program as approved by the Director of Graduate Studies in French)</td>
<td></td>
</tr>
<tr>
<td>FREN 602</td>
<td>Studies in French Culture</td>
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<tr>
<td>Approved elective</td>
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<td></td>
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<tr>
<td>Media</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 603</td>
<td>Studies in French Media</td>
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<tr>
<td>Approved elective</td>
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<td></td>
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<tr>
<td>Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 604</td>
<td>Studies in French Literature</td>
<td></td>
</tr>
<tr>
<td>Approved Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students may, with permission of the Director of Graduate Studies in French, supplement their program of study with occasional coursework in disciplines related to their area of French specialization.

1. Students who select the thesis option will complete 3-6 credit hours of FREN 690 and take one or two additional graduate French courses selected from the rubrics above. Students in the non-thesis option will complete 9 additional credit hours of FREN graduate course work selected from the rubrics above.

2. FREN 506, FREN 531, FREN 551, FREN 561, FREN 562, FREN 655, FREN 670, and FREN 680 are course numbers used for electives in the French program

### Geography, Applied (MS)

**Master of Science in Applied Geography (AGEOMS)**
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences) (GA)
Department: Geography and Geosciences (http://louisville.edu/geogeo)
Program Webpage (http://louisville.edu/geogeo/graduate)

**Program Information**

The Master of Science in Applied Geography is designed to provide students with the analytical skills and background knowledge needed to solve real-world problems with geographic dimensions. Graduate students experience a nucleated body of coursework designed to foster and support the theoretical knowledge and advanced skill sets demanded for the professional and academic/research fields. Coupled with the enhanced level of course content, quantitative, qualitative and spatial data analysis applications, and the departmental emphasis upon critical reasoning, effective writing and communication skills, graduates will be capable and prepared for effective integration into a broad diversity of professional fields.

Our course offerings and faculty research areas include geographic information systems (GIS), remote sensing, climatology and meteorology, urban and regional studies, quantitative and qualitative methods, medical geography, globalization, glaciology, hydrology and water resources, geomorphology, glaciology, transportation and location analysis, border security, land use/land cover change and the geography of food and race.

Geographic information systems (GIS) proficiency is required for all students. If not attained at the undergraduate level or in a job-related environment, students will be required to take GEOG 558 in addition to the coursework listed as program requirements. The department has state-of-the-art computer facilities with GIS and remote sensing software.

The program offers both thesis and non-thesis options. Students who choose the non-thesis option are required to take a written comprehensive exam near the end of their course of study. Students may attend either full- or part-time.

**Admission Requirements**

Students from geography and related fields are encouraged to apply.

All applicants must have completed a BA or BS with a cumulative grade point average of 3.0 and successful students have a combined score of at least 1000 on the GRE. Applicants must submit two (2) letters of recommendation addressing candidate skills and readiness for graduate study, as well as a letter of intent outlining educational goals.

All materials must be submitted to the School of Interdisciplinary and Graduate Studies: louisville.edu/graduate/apply.

**Program Requirements**

The Master of Science in Applied Geography is a 36-credit hour program with both a thesis and a non-thesis option.

Geographic information systems (GIS) proficiency is required for all students. If not attained at the undergraduate level or in a job-related environment, students will be required to take GEOG 558 in addition to the coursework requirements listed below.

**Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEOG 600</td>
<td>History and Philosophy of Geography</td>
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</tbody>
</table>

**Non-Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEOG 600</td>
<td>History and Philosophy of Geography</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 640</td>
<td>Approaches &amp; Methods in Applied Geography</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 641</td>
<td>Research Design and Proposal Development in Applied Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**

After the second semester, each thesis student will choose a thesis advisor and two other faculty members for a thesis committee.

Non-thesis students will choose a three-member advising committee to administer and evaluate the comprehensive exam.

1. GEOG 600, GEOG 640, GEOG 656 and GEOG 660 are prerequisites to GEOG 641.
2. Up to two courses used to satisfy the elective requirement may be from outside the department.

**Health Administration (MS)**

**Master of Science in Health Administration (HEADMS)**

Unit: School of Public Health and Information Sciences (https://louisville.edu/sphis) (GH)

**Program Information**

Healthcare management is a broad field serving one of the largest and most essential industry segments in the United States and Canada. Management is needed in multiple aspects of the industry which include: hospitals, nursing homes, physician’s offices, pharmaceutical and device manufacturers, consulting, government and public policy, and many more.

The Department of Health Management and Systems Sciences (HMSS) offers the Master of Science in Health Administration degree for students with no healthcare experience (Evening Track MSHA) and a modified curriculum for working mid-career executives (Executive Track MSHA). Evening track students may be enrolled full or part-time. Executive track students must be enrolled full-time (cohort model). As major policy reforms propel widespread disruption across the entire
health care delivery system, HMSS recognizes the need to train and further educate a broad cadre of skilled leaders and managers to meet immediate and critical organizational and system-wide challenges.

**Competencies**

The Program will use the University of Louisville’s Population Health Leadership (PHL) Competency Model. This competency model is a modified version of the National Center for Health Care Leadership (NCHL) competency model (nchl.org (http://www.nchl.org)).

For a complete listing of the competencies for this program, please click here (http://louisville.edu/sphis/departments/health-management-systems-sciences/academics-1/ms-in-health-administration) to visit the MSHA web page for the School of Public Health and Information Sciences

**Curriculum**

The curriculum has 3 main components beginning with an exploration of broad principles and key influencers of leading healthcare organizations, moving to an examination of evidence-based and data-driven frameworks for strategic leadership and effective management of healthcare organizations and issues, and then to an analysis of the external health care and policy environments that impact population and community healthcare management.

**Faculty Advisor**

On matriculation, each student is assigned a faculty advisor and is requested to meet at least twice each semester with his or her advisor. The faculty advisor serves as academic practicum advisor, academic mentor, and counselor on career and employment opportunities, professional development, and opportunities beyond graduate school.

**Admission Requirements**

The Department of Health Management and Systems Sciences (HMSS) offers the Master of Science in Health Administration degree for students with no healthcare experience (evening track) and a modified curriculum for working mid-career executives (executive track).

Prospective students must have a bachelor’s degree from an accredited institution or its equivalent. It is recommended that applying students have a minimum undergraduate GPA of 3.0 on a 4.0 scale.

Prospective students must also submit:

- Resume or curriculum vitae (CV)
- One-page personal statement written by the applicant that is a clear, substantive description of his or her goals in public health and health care management, noting any professional or research experience.
- Three letters of recommendation written within the last twelve months.
- International applicants: Foreign credential evaluation of all degrees from non-U.S. institutions. Please contact the MSHA program prior to completing this requirement.
- Admission interviews by the HMSS Health Leadership Committee are required and are in addition to your application for admission. An interview provides the HMSS Health Leadership Committee an additional source of information and perspective about your potential fit for the University of Louisville.

If applicable, Test of English as a Foreign Language (TOEFL) exam with a minimum score of 90; passing the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville; or a degree from an accredited U.S. institution (this requires provisional admission with evaluation of English language competency).

**Evening track admissions**

Students entering the MSHA evening track must have less than five years of working experience.

Prospective students must submit test scores from any of the following: GRE, GMAT, MCAT, LSAT, or DAT. Scores must be no more than 4 years old. The requirement is waived if an applicant has a terminal degree from a U.S. institution or has obtained and can provide a copy of the Confirmation of ECFMG® Certification (Educational Commission for Foreign Medical Graduates).

**Executive track admissions**

Students entering the MSHA executive track must have a minimum of five years working experience. Preference will be given to students with healthcare-related work experience.

There is no test score requirement.

**Performance within curriculum for both tracks**

Students in the Program must maintain a minimum 3.0 GPA in coursework.

**Program Requirements**

Students must successfully complete the 57-credit hour curriculum, earn a grade of B or above in the MSHA Capstone Course, and have an overall 3.0 GPA in coursework in order to graduate from the program.

All courses within the curriculum are required and there are no electives. Students within both the evening and executive tracks take the same courses except for PHMS 686, which is required for the evening track only, and PHMS 691, which is required for the executive track only.

**Evening Track Requirements**

**Education Plan**

The evening track is designed so that students can work as full-time employees and attend evening classes. The practicum course, PHMS 686 MSHA Practicum, is designed to expose students new to the health management field to working conditions in healthcare organizations between their first and second year in the Program.

**Coursework**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHMS 615</td>
<td>Introduction to Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 681</td>
<td>Population Health Quantitative Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 682</td>
<td>Population Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 680</td>
<td>Health Management Leadership Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PHMS 683</td>
<td>Healthcare Quality Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHMS 684</td>
<td>Project Management for Population Health</td>
<td>2</td>
</tr>
<tr>
<td>PHMS 620</td>
<td>Healthcare Strategic Management</td>
<td>2</td>
</tr>
<tr>
<td>PHMS 685</td>
<td>Healthcare Operations Management &amp; Science</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 610</td>
<td>Health Policy &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 609</td>
<td>Health Finance and Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>
### Executive Track Requirements

**Education Plan**
The overall guiding philosophy for the executive track in the MSHA curriculum design is that the Program will only meet once a month and that a hybrid method of content delivery (synchronous and asynchronous) will be used so that the mid-career executives can proceed working in their current jobs while in the Program. The MSHA executive track substitutes the practicum with the course PHMS 691 *Current Topics in Health Administration*. This course allows students to consider and discuss the current, real-time challenges facing the healthcare industry. Since the executive track students have management experience, the practicum is not required.

**Coursework**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 662</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 688</td>
<td>Healthcare Marketing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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**Year 2**

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<thead>
<tr>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>PHMS 687</td>
<td>Managerial Accounting for Healthcare Managers</td>
<td>3</td>
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<tr>
<td></td>
<td>PHEP 501</td>
<td>Introduction to Epidemiology</td>
<td>3</td>
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<tr>
<td></td>
<td>PHMS 662</td>
<td>Health Economics</td>
<td>3</td>
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<tr>
<td></td>
<td>PHMS 688</td>
<td>Healthcare Marketing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHMS 605</td>
<td>Governance and Management of Healthcare Organizations</td>
<td>3</td>
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<td></td>
<td>PHMS 686</td>
<td>MSHA Practicum</td>
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<table>
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<tr>
<th>Semester</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>Fall</td>
<td>PHMS 690</td>
<td>MSHA Capstone Course (course pending)</td>
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</table>

| Minimum Total Hours | 57 |

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### Health and Physical Education (MAT)

**Master of Arts in Teaching Health and Physical Education (HPEDMAT)**

- **Unit**: College of Education and Human Development ([https://louisville.edu/education](https://louisville.edu/education)) (GE)
- **Department**: Teaching and Learning; Health and Sport Sciences
- **Program Webpage**: ([https://louisville.edu/education/degrees/mat-hpe](https://louisville.edu/education/degrees/mat-hpe))

**Program Information**

The Master of Arts in Health and Physical Education degree provides Kentucky certification in grades P-12.

The Departments of Teaching and Learning and Health and Sport Sciences are committed to the highest standards of professional preparation. Our programs have sought and received national accreditation from the Council for the Accreditation of Educator Preparation. Graduates of initial teacher certification programs at the University of Louisville begin their teaching careers secure in the knowledge that they have been prepared for the real world of classrooms through a rigorous teacher preparation program.

The degree offers school-based methods in the fall semester (August-December) in health and physical education for grades P-12. During the spring semester candidates complete 15 weeks of student teaching at both the elementary and secondary levels, a weekly seminar class and a reading and writing across the curriculum course. The program’s schedule coincides with that of the public schools. Candidates progress through the program in a cohort group. The program is full-time and classes are offered only during the day.

**Admission Requirements**

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program. Candidates considering application to the MAT program should contact the MAT admissions counselor (teacher@louisville.edu) prior to applying for admission. UofL undergraduate students, with a major in Health and Human Performance - Physical Education Teacher Preparation, should direct questions to Dr. Carla Vidoni at carla.vidoni@louisville.edu.

Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

1. Application to School of Interdisciplinary and Graduate Studies/ MAT Program ([http://louisville.edu/graduate/apply](http://louisville.edu/graduate/apply)). This should be completed three to four weeks prior to the application deadline.
2. Passing Test Scores (http://louisville.edu/education/degrees/info/gre-mat)
   
   Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.

3. Praxis II Content Exam(s) (http://louisville.edu/education/degrees/info/mat-hpe-praxis-ii)

4. Bachelor’s Degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with a Minimum 2.75 Grade Point Average (official transcripts (http://louisville.edu/education/degrees/info/transcripts) required). If you are a current UofL student, you do not need to submit transcripts.

5. Prerequisite Course Requirements (http://louisville.edu/education/degrees/info/mat-hpe-prereq)

6. Grade of C or higher in Oral Communication Course

7. Grade of C or higher in ENGL 102

8. TOEFL (http://louisville.edu/education/degrees/info/toefl)

9. Professional (http://louisville.edu/education/degrees/info/mat-mse-professional-statement) Statement

10. 3 Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)

11. Acceptable interview


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**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HSS 605</td>
<td>Teaching and Learning for Elementary Physical Education</td>
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<tr>
<td>HSS 606</td>
<td>Teaching and Learning for Secondary Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>HSS 609</td>
<td>Methods in Practical Living: Health</td>
<td>4</td>
</tr>
<tr>
<td>Mid-point assessment</td>
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<td></td>
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<tr>
<td>HSS 611</td>
<td>Seminar in Student Teaching in Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>HSS 612</td>
<td>Student Teaching: Elementary Physical Education 2</td>
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</tr>
<tr>
<td>HSS 613</td>
<td>Student Teaching: Middle/Secondary Physical Education 2</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 620</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>HSS 615</td>
<td>Student Teaching: Health Education</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

1 Prior to student teaching: All content methods classes listed above passed with a cumulative 3.0 GPA; positive recommendation from the Health and Physical Education Program Committee (includes assessment and mid-point portfolio); electronic documentation of 200 hours of diverse and approved field experiences.

2 These courses are the exit requirements for this program. Includes teacher certification in P-12 health and physical education

**Certification Assessment:** After student teaching: Satisfactory dispositions assessment; all program course work completed with 2.5 cumulative GPA; 2.5 cumulative GPA in content course requirements; 2.0 GPA or higher in each student teaching; satisfactory certification portfolio; passing scores on PRAXIS content and PLT exams; positive recommendation from Health and Physical Education Program Committee.

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**Degree Assessment:** Satisfactory dispositions assessment; all program course work with 3.0 cumulative GPA (and no more than a total of two grades of C in degree courses); satisfactory degree portfolio.

**Degree Candidacy:** Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

**Praxis Disclaimer:** Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at www.epsb.ky.gov (http://www.epsb.ky.gov) or www.ets.org/praxis/ky (https://www.ets.org/praxis/ky) for current requirements.

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**Health Data Analytics (MS)**

**Master of Science in Health Data Analytics (HEDAMS)**

Unit: School of Public Health and Information Sciences (https://louisville.edu/sphis) (GH)


The Kentucky Council on Postsecondary Education has approved this program to be offered at the University of Louisville. The intended first term for enrollments currently is Fall 2019. Interested individuals should contact the Department of Health Management and Systems Sciences for more information.

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**Program Information**

The Master of Science in Health Data Analytics program will educate and trains public health graduate students in data analytics using the most recently developed techniques for Big Data, data mining, and algorithmic analysis.

**Competencies**

The MS in Data Analytics Program focuses on four key competencies:

1. Public health knowledge
2. Data warehouse development for health data analytics
3. Health data analytics
4. Translation of data analytics into actionable knowledge

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**Curriculum**

The curriculum has four main components:

1. Public health foundations
2. Principles of data warehouse construction (i.e., creating Big Data from little data)
3. Advanced analytics (i.e., Big Data analytics, data mining)
4. Master’s thesis based on original research using health data

---

**Admission Requirements**

The Kentucky Council on Postsecondary Education has approved this program to be offered at the University of Louisville. The intended first term for enrollments currently is Fall 2019. Interested individuals should contact the Department of Health Management and Systems Sciences for more information.
The MS program is available to students who have completed an undergraduate degree in biostatistics, statistics, mathematics, computer science or a related discipline and have competency in college-level calculus, statistics, regression analysis, as evidenced by transcripts from postsecondary institutions attended by the applicant.

This program is available to both part-time and full-time students; however, the part-time student must be cognizant that courses are offered on an alternating basis, usually every two years. Part-time students must pursue the recommended course sequence as courses are available.

The following are additional requirements for admission:

- Graduate application submitted to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply)
- Non-refundable application fee
- At least two letters of recommendation written within past twelve months, submitted via the Graduate School website
- Students are asked to submit a current curriculum vitae (CV)
- Submission of GRE Quantitative section score to the School of Interdisciplinary and Graduate Studies
- All postsecondary transcripts (requires foreign credential evaluation if not from accredited U.S. institution)
- Statement of goals (i.e., general research interests)
- Admission interviews by the HMSS Health Leadership Committee are required and are in addition to your application for admission. An interview provides the HMSS Health Leadership Committee an additional source of information and perspective about your potential fit for the University of Louisville.
- If candidate’s primary language is not English, one of the following:
  - Test of English as a Foreign Language (TOEFL) exam with a minimum score of 250 (after conversion for test type)
  - Passing the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville
- Degree from an accredited U.S. institution

Retention and Completion

On matriculation, each student is assigned a faculty advisor and is requested to meet at least twice each semester with his or her advisor. The faculty advisor works with the student to develop a program of study and serves as academic mentor and counselor on career and employment opportunities, professional development, and opportunities beyond graduate school.

Program Requirements

The Kentucky Council on Postsecondary Education has approved this program to be offered at the University of Louisville. The intended first term for enrollments currently is Fall 2019. Interested individuals should contact the Department of Health Management and Systems Sciences for more information.

There are 41 total credit hours in this curriculum, broken down as follows:

- 35 credit hours of required coursework
- 3 credit hours of thesis research
- 3 credit hours of project management (practicum/internship)

To graduate, students must successfully complete the 41 credit hour curriculum and thesis, and have an overall 3.0 GPA in program coursework. All courses within the curriculum are required and there are no electives.

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHEP 622</td>
<td></td>
<td>Population Pathology</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 636</td>
<td>Leadership in Health Information Management (course pending)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHMS 638</td>
<td>Data Security and Electronic Health Records (course pending)</td>
<td>3</td>
<td></td>
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<tr>
<td>PHMS 639</td>
<td>Health Data Analytics Practicum (course pending)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHMS 640</td>
<td>Master’s Thesis Research in Health Data Analytics (course pending)</td>
<td>3</td>
<td></td>
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<tr>
<td>PHMS 641</td>
<td>Data Mining I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHMS 642</td>
<td>Data Mining II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHMS 643</td>
<td>Data Management in Health Service Research</td>
<td>3</td>
<td></td>
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<tr>
<td>PHMS 682</td>
<td>Population Health Information Management</td>
<td>3</td>
<td></td>
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<tr>
<td>PPHP 523</td>
<td>Public Health in the United States</td>
<td>2</td>
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<tr>
<td>PHST 661</td>
<td>Probability</td>
<td>3</td>
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<tr>
<td>PHST 662</td>
<td>Mathematical Statistics</td>
<td>3</td>
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<td>PHST 691</td>
<td>Bayesian Inference and Decision</td>
<td>3</td>
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<tr>
<td>PHST 710</td>
<td>Advanced Statistical Computing I</td>
<td>3</td>
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</tbody>
</table>

Minimum Total Hours | 41

Health Professions Education (CERT)

Graduate Certificate in Health Professions Education (HPEDCHP)

Unit: College of Education and Human Development; School of Medicine
Department: Educational Leadership, Evaluation, and Organizational Development

Program Webpage (https://louisville.edu/education/degrees/gc-hpe)

Program Information

The certificate in Health Professions Education (CHP) is offered through a partnership between the College of Education and Human Development and the School of Medicine. The program is designed specifically for faculty, future faculty, residents and graduate students in the health sciences including medicine, nursing, dentistry, public health, clinical and allied health professions. The program includes four graduate-level credit courses (12 total credit hours), and the certificate is an academic credential offered through the University of Louisville School of Interdisciplinary and Graduate Studies.

All courses are part of the College of Education and Human Development graduate curriculum and may be applied to other degree programs such as a master’s degree. Each course is grounded on the plan for the corresponding course taught in the College of Education and Human Development but is focused primarily for healthcare educators. For example, instructional techniques include working not only in the classroom but also in clinical settings. Class projects are designed for the healthcare environment.

Program courses follow the Belknap Campus semester schedule but meet on the Health Sciences Campus. Courses are taught in the evening and are web-enhanced with approximately one-third of weekly work assignments completed online.
Program Purpose: To promote effective clinical teaching and student instruction in a variety of health science center settings and to develop skill in designing education research for presentation and publication.

Admission Requirements
The HROD Admissions Committee requires the following materials:

- Complete the online application to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply).
- Transcripts of all undergraduate and graduate work. Unconditional admission requires a minimum cumulative grade point average (GPA) of 3.0 for all coursework taken AND a minimum GPA of 2.75 for coursework at the undergraduate degree-granting institution.
- For applicants without a terminal degree (e.g., MD, DDS, PhD), GRE scores must be submitted. Please note: when submitting GRE scores through ETS, have scores sent using the general University of Louisville code, 1838.
- Test of English as a Foreign Language (TOEFL) score for international students from countries where English is not the native language. Students holding a baccalaureate or advanced degree from an accredited institution in the United States are exempt from this requirement.
- Two letters of recommendation. If you have studied at a college or university in the last five years, the admissions committee prefers to see at least one letter from a faculty member. Other references can include work supervisors. Personal references (e.g., family, friends) are not accepted.
- Goal Statement Sheet [PDF] (http://louisville.edu/education/degrees/files/goal-statement2012.pdf). The Admissions Committee evaluates applications based on how an applicant’s goals, professional experiences, and commitment to education are an appropriate fit with this program.
- Current Resume

Admission is competitive. Meeting the GRE and GPA minimums do not guarantee acceptance into the program.

Program Requirements
The current course sequence is as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 665</td>
<td>Foundations of Health Professions Education 1</td>
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</tr>
<tr>
<td>ELFH 675</td>
<td>Teaching and Learning in Health Professions Education 1</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 676</td>
<td>Instructional Strategies in Health Professions Education 1</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 685</td>
<td>Evidence-based Practice in HPE 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

1. Must enroll in section taught at the HSC campus.

Higher Education Administration (MA)

Master of Arts in Higher Education Administration (HED MA)
Unit: College of Education and Human Development (GE) (http://louisville.edu/education)
Department: Educational Leadership, Evaluation, and Organizational Development (http://louisville.edu/education/departments/elfh)

Program Webpage (https://louisville.edu/education/degrees/ma-he)

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/masters/master-of-arts-in-higher-education).

The Master’s in Higher Education Administration Degree program at UofL is designed to provide individuals with the knowledge and skills necessary to pursue a career in university and college settings. Our nationally recognized faculty apply their expertise as scholars and practitioners to connect classroom knowledge directly to real-world experiences.

Admission Requirements

- **Graduate School Application:** Complete the online application to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply).
- **Official transcripts of all undergraduate and graduate work.** Unconditional admission requires a minimum degree grade point average (GPA) of 2.75. Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.

  Please have transcripts sent to:
  
  School of Interdisciplinary and Graduate Studies
  
  University of Louisville
  
  Louisville, KY 40292
  
  If transcripts are sent electronically, please have them sent to the following e-mail: gradadm@louisville.edu

  - GRE scores (waived if undergraduate cumulative GPA is 3.0 or higher or completion of a master’s degree with a 3.5 cumulative GPA or higher)
  - Two letters of recommendation
  - Resume
  - Professional goals statement

Students may be recommended for conditional admission upon recommendation of the program faculty.

Meeting the GPA and GRE requirements does not guarantee admission to the program.

Department committee reviews application materials and makes recommendation to School of Interdisciplinary and Graduate Studies.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>Practice Core</td>
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<tr>
<td>ELFH 600</td>
<td>Introduction to Research Methods and Statistics or ELFH 666 Program Development &amp; Assessment in Higher Education</td>
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<tr>
<td>ELFH 682</td>
<td>The Organization and Administration of Higher Educational Institutions</td>
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<tr>
<td>ELFH 693</td>
<td>College Students in the United States</td>
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### Degree Requirements—Fort Knox

**General Requirements**

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<tr>
<td>ELFH 689</td>
<td>Special Problems in Educational Leadership</td>
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**Professional Area**

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<th>Code</th>
<th>Title</th>
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<tr>
<td>ELFH 610</td>
<td>Collaboration and Communication for Effective Leadership</td>
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<tr>
<td>ELFH 641</td>
<td>Graduate Seminar: Leadership, Foundations and Human Resource Education</td>
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<tr>
<td>ELFH 682</td>
<td>The Organization and Administration of Higher Educational Institutions</td>
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<td>ELFH 693</td>
<td>College Students in the United States</td>
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<td>ELFH 607</td>
<td>Principles of Educational Leadership</td>
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<tr>
<td>ELFH 684</td>
<td>Educational Resource Management in Postsecondary Education</td>
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<tr>
<td>ELFH 694</td>
<td>Diversity in Higher Education</td>
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<tr>
<td>ELFH 680</td>
<td>Legal Issues in Postsecondary Education</td>
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**Electives**

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<td>College Teaching</td>
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<td>ELFH 623</td>
<td>Special Problems in Leading Instructional Improvements</td>
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**Exit Requirement**

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<tr>
<td>ELFH 690</td>
<td>Professional Project in Higher Education</td>
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**Minimum Total Hours**

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<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>36</td>
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**Concentration Requirements**

**Concentration in Administration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 610</td>
<td>Principles of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 683</td>
<td>American College and University</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
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</table>

**Minimum Total Hours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>12</td>
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</table>

1 Electives must be approved by advisor

**Concentration for Policy & Equity**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>ELFH 681</td>
<td>The Philosophy of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 687</td>
<td>Education Policy &amp; Equity</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
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**Minimum Total Hours**

<table>
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<tbody>
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<td></td>
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</table>

1 Electives must be approved by advisor

**Concentration in Sport Administration**

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<tr>
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<tr>
<td>SPAD 680</td>
<td>Athletics and Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 625</td>
<td>Sport Management and Leadership</td>
<td>3</td>
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**Minimum Total Hours**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
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1 Electives must be approved by advisor

**Concentration in Teaching & Learning**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 670</td>
<td>Instructional Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 683</td>
<td>College Teaching</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td></td>
<td>3</td>
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<tr>
<td>Elective 1</td>
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**Minimum Total Hours**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>12</td>
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</tbody>
</table>

1 Electives must be approved by advisor

**History (MA)**

Master of Arts in History (HISTMA)
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Department: History (http://louisville.edu/history)
Program Webpage (https://louisville.edu/history/graduate-studies)

Program Information
The Master of Arts program in History provides advanced training in historical theory, investigation, and writing. Among other things, it prepares students for further graduate studies in history, employment in educational institutions or in public history, and careers in law and government.

The varied specialties of our faculty, combined with the structure of the program, allow our students to acquire a worldwide vision of history. In addition to completing a set of core courses, all students are required to select a Major Field in Americas, World, or Public History.

Accelerated BA/MA in History Program
Undergraduate History majors who are already thinking about pursuing an MA in history can speed up the process by applying some of their undergraduate credit hours toward a master’s degree. Students take three graduate-level courses/nine hours (either 500-level with the additional graduate-level assignments, or 600-level) while still an undergraduate, and then have those credits apply both toward the undergraduate degree and towards an eventual master’s degree from UofL.

Interested students should:
1. Complete an application for admission to the History Department’s Master of Arts program (including GRE scores, transcripts, two letters of recommendation, and a statement of purpose) no later than the end of their junior year.
2. Have a minimum overall grade point average (GPA) of 3.35, a history GPA of 3.35, and meet all other requirements for admission to the History Department’s Master of Arts program (including at least 21 hours of history courses).

Students must retain a 3.35 GPA in history during their senior year to remain in the program. Once admitted to the accelerated BA/MA program and starting the graduate work, students are expected to maintain a full graduate load of 9 credit hours.

Admission Requirements
Applicants to the MA program in History should have:

- A minimum undergraduate GPA of 3.0 on a 4.0 point scale (a GPA based on a 3.0 scale will be converted to a 4.0 scale)
- 21 undergraduate credit hours in history, with a minimum GPA of 3.0.
- Successful students have a combined score of at least 300 on the Verbal and Quantitative sections of the Graduate Record Examination (GRE).

Students with an undergraduate GPA of between 2.5 and 2.99 may be accepted conditionally into the program at the discretion of the Director of Graduate Studies, provided they meet all other requirements for admission. Conditional admission requires that the student maintain a GPA of 3.0 in the first 9 credit hours of graduate coursework.

Students with fewer than 21 undergraduate credit hours in history will be required to take additional history courses to bring their total undergraduate hours up to the required number.

Non-Degree Students
At the discretion of the Director of Graduate Studies, non-degree students may be admitted to pursue graduate coursework.

Admission Materials
Applicants must submit the following materials to the University of Louisville School of Interdisciplinary and Graduate Studies, Graduate Admissions:

- A completed graduate application; application fee (available online at louisville.edu/graduate/apply)
- Official transcripts, verifying the receipt of a BA from an accredited institution
- Scores from the Graduate Record Examination
- At least two letters of recommendation from individuals familiar with the applicant’s academic and/or professional capabilities and potential
- A writing sample of no more than 15 double-spaced pages
- A statement of purpose, not to exceed 500 words, outlining in reasonably specific terms, the applicant’s academic and career objectives and how they can be advanced through graduate work in our program. The statement should also indicate the applicant’s intended area(s) of interest, preparation for this field of study, and, if possible, the departmental faculty with whom the applicant wishes to study.

Deadlines:
Applications for Fall semester: February 15 *
Applications for Spring semester: December 1

* February 15 is the deadline for all students who want to be considered for available fellowships, assistantships, and internships. Students who do not intend to apply for these funding sources may submit their applications until May 15. For a list of the graduate assistantships, scholarships, fellowships, and internships, see louisville.edu/history/graduate-studies/funding Applications for these awards are normally due on February 15.

Program Requirements
All graduate students are required to take the Core Courses (15 credit hours in total) along with approved Major Field courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 605</td>
<td>Research Methods and Materials</td>
<td>15</td>
</tr>
<tr>
<td>HIST 608</td>
<td>Practicum in Public History</td>
<td></td>
</tr>
<tr>
<td>HIST 621</td>
<td>Seminar in American History</td>
<td></td>
</tr>
<tr>
<td>or HIST 607</td>
<td>Oral History</td>
<td></td>
</tr>
<tr>
<td>HIST 697</td>
<td>Introduction to Public History</td>
<td></td>
</tr>
<tr>
<td>HIST 603</td>
<td>Thesis</td>
<td></td>
</tr>
</tbody>
</table>
Completion of 30 credit hours of coursework, 15 credit hours in the required Core Courses and 15 credit hours in the student's chosen Major Field. The thesis must be in the Major Field. Following an oral defense, it must be approved by a thesis committee consisting of the thesis director and at least two other faculty members, one of whom must come from the History Department. The committee requires prior approval by the Department Chair and the Academic Unit.

Examination Option

Completion of 33 credit hours of coursework, 15 credit hours in the required Core Courses and 18 credit hours in the student's chosen Major Field. The exam consists of two written examinations, one covering the competencies addressed in the Core Courses and one in the Major Field, and an oral examination. A committee will evaluate the written and oral examinations on their content and the relevant areas of history. The committee will consist of three faculty members, normally the two faculty members who administer the examinations and a third faculty member who may be in the Department of History. The committee requires approval by the Department Chair and the Academic Unit.

Accelerated BA/MA

This program allows a history major to use a maximum of 6 credit hours of graduate coursework towards both a BA and an MA. After completing the undergraduate program and receiving a BA, the student will enter the graduate program and complete the remaining requirements for the MA.

To be considered for admission to the accelerated program, students must:

- Have a minimum overall grade point average (GPA) of 3.0 and a minimum GPA of 3.35 in history
- Complete an application for admission to the graduate program (including GRE scores and at least two recommendations) no later than the end of the junior year (see details on Admission tab)

In addition, students must retain a GPA of 3.35 in history (have a B+ in graduate history courses) during their senior year to remain in the program.

In general, students will work with Associate or Full Professors as their academic advisors. To work with an Assistant Professor, students will have to receive approval from the faculty member and the Director of Graduate Studies.

Human Resources and Organization Development (MS)

Master of Science in Human Resources and Organization Development (HRODMS)

Unit: College of Education and Human Development (GE) (http://louisville.edu/education)
Department: Educational Leadership, Evaluation, and Organizational Development (http://louisville.edu/education/departments/eleod)
Program Webpage (http://catalog.louisville.edu/education/degrees/ms-hrod)

Program Description

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-science-in-human-resources-and-organization-development).

This program educates professionals who lead workplace performance, development, and learning through discovery and critical inquiry. Students and graduates work in corporations, government agencies, health-care organizations, the military, non-profit organizations, education institutions, and community-based groups.

The program has four concentrations which emphasize various aspects of this field:

- Health Professions Education - Education, learning, leadership, and organization change for health-care settings.
- Human Resource Leadership - Strategic and tactical human resource leadership for generalists and specialists.
- Workplace Learning and Performance - Learning, training, performance improvement, and instructional design in organizational settings.
- Career and Technical Education - Performance development and learning in career and technical education through discovery and critical inquiry.
The concentrations in Workplace Learning and Performance (WLP) and Human Resource Leadership (HRL) have been suspended to further enrollments, effective spring 2019. No new applications will be accepted for those concentrations.

Admission Requirements
The HROD Admissions Committee requires the following materials to make a decision about admission:

- **Graduate School Application:** Complete the online application to the School of Interdisciplinary and Graduate Studies (http://graduate.louisville.edu/apply).
- **Official transcripts of all undergraduate and graduate work.** Unconditional admission requires a minimum cumulative grade point average (GPA) of 3.0 for all coursework taken. Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.

Please have transcripts sent to:
School of Interdisciplinary and Graduate Studies
University of Louisville
Louisville, KY 40292

If transcripts are sent electronically, please have them sent to the following e-mail: gradadmm@louisville.edu

- **GRE Scores (required for some):** For applicants with less than a 3.0 GPA in the last 60 hours of undergraduate work and no terminal degree (e.g., M.D., D.D.S., Ph.D.), you must submit GRE scores. Please note: When submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838.
- **Test of English as a Foreign Language (TOEFL):** For international students from countries where English is not the native language. Students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement.
- **Two letters of recommendation.** If you have studied at a college or university in the last five years, the admissions committee prefers to see at least one letter from a faculty member. Other references can include work supervisors. Personal references (e.g. family, friends) are not accepted.
- **Goal Statement Sheet [PDF].** The Admissions Committee evaluates applications based on how an applicant’s goals, professional experiences, and commitment to education are an appropriate fit with this program.
- **Current Resume**

Admission is competitive. Meeting the GRE and GPA minimums does not guarantee that prospective students will be accepted into the program.

Program Requirements
The program requires 11 courses, either 33 hours (portfolio/fieldwork option) or 36 hours (thesis option).

The curriculum in all four concentrations is centered around five program goals:

- Investigate Gap
- Produce Interventions
- Implement and Lead Change
- Evaluate Outcomes
- Integrate Foundational Knowledge and Skills

### Concentrations

#### Concentration in Human Professions Education

**Program Purpose:** To prepare professionals who lead performance, development, and learning in the health professions through discovery and critical inquiry. Students may also apply for the health professions education certificate after completion of the 12 credit hour concentration in health professions education.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration Core</td>
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<tr>
<td>ELFH 665</td>
<td>Foundations of Health Professions Education</td>
<td></td>
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<tr>
<td>ELFH 675</td>
<td>Teaching and Learning in Health Professions Education</td>
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<tr>
<td>ELFH 676</td>
<td>Instructional Strategies in Health Professions Education</td>
<td></td>
</tr>
<tr>
<td>ELFH 685</td>
<td>Evidence-based Practice in HPE</td>
<td></td>
</tr>
</tbody>
</table>

**Elective**
Choose 3 credit hours:

- **ELFH 684** Educational Resource Management in Postsecondary Education
- **ELFH 612** Talent Acquisition and Management

Minimum Total Hours 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration Hours + Degree Program Core</td>
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<tr>
<td>36 total hours with Thesis</td>
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**Midpoint Assessment:** Successful progress on Hallmark Assessment Rubrics, as determined by faculty advisor

**Exit Assessment:** Competency Self-Assessment/Reflection, program portfolio and integration of research, theory, and practice or thesis
Degree Assessment:

- A minimum of 33 credit hours with an overall GPA of 3.0; no more than two grades of C
- Satisfactory completion of program portfolio

Concentration in Human Resource Leadership

Program Purpose: To prepare professionals who lead people, performance, development, and learning through discovery and critical inquiry.

The concentrations in Workplace Learning and Performance (WLP) and Human Resource Leadership (HRL) have been suspended to further enrollments, effective spring 2019. No new applications will be accepted for those concentrations.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ELFH 611</td>
<td>Strategic Human Resources</td>
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<tr>
<td>ELFH 612</td>
<td>Talent Acquisition and Management</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 631</td>
<td>Performance Management and Rewards</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 664</td>
<td>Organizational Change and Consulting</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 671</td>
<td>Performance Improvement</td>
<td>3</td>
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</tbody>
</table>

Minimum Total Hours: 15

Midpoint Assessment: Successful completion on Hallmark Assessment Rubrics, as determined by faculty advisor

Exit Assessment: Competency Self-Assessment/Reflection, program portfolio and integration of research, theory, and practice or thesis

Degree Assessment:

- A minimum of 33 credit hours with an overall GPA of 3.0; no more than two grades of C
- Satisfactory completion of program portfolio

Concentration in Career and Technical Education

Program Purpose: To prepare professionals who lead performance, development, and learning in career and technical education through discovery and critical inquiry.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ELFH 510</td>
<td>Teaching Career and Technical Education</td>
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</tr>
<tr>
<td>ELFH 663</td>
<td>Methods of Facilitation</td>
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<tr>
<td>ELFH 672</td>
<td>Instructional Design and Development</td>
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<tr>
<td>ELFH 641</td>
<td>Graduate Seminar. Leadership, Foundations and Human Resource Education</td>
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</tr>
<tr>
<td>ECPY 507</td>
<td>Learning Theory and Human Growth and Development</td>
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</tr>
<tr>
<td>OR</td>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
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<tr>
<td>OR</td>
<td>EDSP 540</td>
<td>Introduction to Exceptional Children</td>
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<tr>
<td>OR</td>
<td>EDSP 545</td>
<td>Exceptional Children in the Regular Classroom</td>
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</tbody>
</table>

Elective: 3

Choose 3 credit hours

ELFH 607 | Principles of Educational Leadership
ELFH 673 | e-Learning Design and Development
ELFH 684 | Educational Resource Management in Postsecondary Education
ELFH 686 | The Two-Year College

Minimum Total Hours: 15-18

Concentration in Workplace Learning and Performance

Program Purpose: To prepare professionals who lead performance, development, and learning through discovery and critical inquiry.

The concentrations in Workplace Learning and Performance (WLP) and Human Resource Leadership (HRL) have been suspended to further enrollments, effective spring 2019. No new applications will be accepted for those concentrations.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ELFH 611</td>
<td>Strategic Human Resources</td>
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<tr>
<td>ELFH 664</td>
<td>Organizational Change and Consulting</td>
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</tr>
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<td>ELFH 671</td>
<td>Performance Improvement</td>
<td>3</td>
</tr>
<tr>
<td>ELFH 672</td>
<td>Instructional Design and Development</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 15

Midpoint Assessment: Successful progress on Hallmark Assessment Rubrics, as determined by faculty advisor

Exit Assessment: Competency Self-Assessment/Reflection, program portfolio and integration of research, theory, and practice or thesis

Degree Assessment:

- A minimum of 33 credit hours with an overall GPA of 3.0; no more than two grades of C
- Satisfactory completion of program portfolio

Choose 3 credit hours

ELFH 607 | Principles of Educational Leadership
ELFH 673 | e-Learning Design and Development
ELFH 684 | Educational Resource Management in Postsecondary Education
ELFH 686 | The Two-Year College

Minimum Total Hours: 15-18
Midpoint Assessment: Successful progress on Hallmark Assessment Rubrics, as determined by faculty advisor

Exit Assessment: Competency Self-Assessment/Reflection, program portfolio, and integration of research, theory, and practice or thesis

Degree Assessment:
- A minimum of 33 credit hours with an overall GPA of 3.0; no more than two grades of C
- Satisfactory completion of program portfolio

Humanities (MA)

Master of Arts in Humanities (HUMMA)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Comparative Humanities
Program Webpage (https://louisville.edu/humanities/graduate/ma)

Program Information
The MA in Humanities is an interdisciplinary, comparative, and globally-oriented master's program offered by the Department of Comparative Humanities in the College of Arts and Sciences. It is designed for students who seek to integrate two disciplines in the arts and humanities, and/or historical periods, with community enrichment. The MA in Humanities can be undertaken as an intensive two-year program, but there is the possibility of a part-time schedule for students with full-time jobs.

Degree Summary
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Concentration (see tab)</td>
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</tr>
<tr>
<td>Research Methods</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Thesis/Directed Project</td>
<td></td>
<td>3-6</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

A minimum of 15 credit hours must be at the 600 level, excluding HUM 655. In addition to the coursework requirements listed above, some students may need to satisfy the foreign language competency requirement.

Specific coursework information can be found on the Degree Requirements tab.

Areas of Concentration
The MA in Humanities offers three areas of concentration:
- Interdisciplinary Humanities
- Linguistics
- Civic Leadership

Accelerated BA/MA in Humanities
Students who wish to pursue an accelerated Masters degree will be allowed to apply to the Baccalaureate degree up to 9 credit hours of coursework taken for graduate credit. 21 credit hours of graduate coursework, in addition, will constitute the minimum number of credit hours for obtaining the MA. The guidelines for the Accelerated (BA/MA in Humanities) are as follows:
- Students must apply no later than the end of the junior year for admission to the accelerated program.
- A minimum overall grade point average and major grade point average of 3.35 will be required for admission to and for retention in the program.
- Students must complete the GRE and fill out the Humanities Division application for the accelerated BA/MA in Humanities.
- Students may take a maximum of 9 credit hours for graduate credit, which will also apply to the requirements for the baccalaureate degree in Humanities.
- The accelerated BA/MA in Humanities will be offered for the Interdisciplinary Humanities Concentration and for the Linguistics Concentration, but not for the Concentration in Humanities and Civic Leadership.
- Students who enroll in the accelerated BA/MA in Humanities may elect the thesis or non-thesis option, whichever is appropriate to the concentration and course of study.
- All students in the program will take either HUM 609 or HUM 610 to fulfill the Methodology requirement.
- All requirements remain the same, including the foreign language requirement.

Admission Requirements
Regular admission to the MA in Humanities occurs twice yearly, for entry during the fall and spring semesters. The official deadline for Fall admission is January 15 for the following fall. The official deadline for Spring admission is July 15 for the following spring.

All applicants must have completed a BA in an appropriate field of study prior to beginning the program.

Applications should consist of the following:
- Online Graduate Application for Admission louisville.edu/graduate/apply
- Payment of Application fee
- A statement of intent (about 1000 words) focusing on the research interests or the applicant's professional goals
- A scholarly or creative writing sample (5,000-10,000 words)
- Official transcripts of all undergraduate and graduate-level work
- Graduate Record Examination (GRE) General Test scores
Interdisciplinary Humanities concentration must satisfy a foreign language competency requirement and complete a final oral defense of a thesis or Directed Study Project.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interdisciplinary Humanities, Thesis</td>
<td>First Core Area 1,2</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Second Core Area 1,2</td>
<td>9</td>
</tr>
<tr>
<td>HUM 609</td>
<td>Interdisciplinary Theory: Arts and Humanities or HUM 610</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Methods and Theories in the Study of Religion</td>
<td></td>
</tr>
<tr>
<td>HUM 645</td>
<td>Thesis Guidance</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

In addition to the course work requirements listed above, students in two of the three concentrations need to satisfy a foreign language competency requirement.

1 Concentration credit hours vary depending on whether students opt for a Thesis or a Directed Study Project.
2 Thesis option students take 6 credit hours of HUM 645; Directed Study Project option students take 3 credit hours of HUM 655.

Program Requirements

Concentrations

These concentrations are designed to provide students with a broad grasp of the Arts and Humanities with special strengths in selected areas such as Linguistics and Civic Leadership.

In each track, students take a minimum of eight or nine classes and either write and defend a thesis or produce and defend a Directed Study Project as a final product.

Each concentration requires a minimum of 30 credit hours, with a minimum of 15 credit hours at the 600 level (excluding HUM 655).

Beyond the course work requirements outlined below, students in two of the three concentrations need additional credits to satisfy the foreign language competency requirement.

Interdisciplinary Humanities (formerly "Traditional" track)

Students in this track can combine the study of two disciplines or focus on the culture of a particular historical period. The cultural periods included are: Ancient, Medieval and Renaissance, Early Modern, and Modern

In addition to the course work listed below, MA students in the Interdisciplinary Humanities concentration must satisfy a foreign language competency requirement and complete a final oral defense of a thesis or Directed Study Project.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interdisciplinary Humanities, Directed Study Project</td>
<td>First Core Area 1,2</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Second Core Area 1,2</td>
<td>9</td>
</tr>
<tr>
<td>HUM 609</td>
<td>Interdisciplinary Theory: Arts and Humanities or HUM 610</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Methods and Theories in the Study of Religion</td>
<td></td>
</tr>
<tr>
<td>HUM 655</td>
<td>Directed Study Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

A minimum of 15 credit hours for the degree must be at the 600 level (excluding HUM 655).

Civic Leadership

Students in this track are professionals; have completed another professional degree program; or are enrolled in the Joint JD/MAH (http://louisville.edu/humanities/graduate/ma/accelerated/jd-ma) or MAH/MBA (http://louisville.edu/humanities/graduate/ma/accelerated/dual-mba-ma-concentration-in-civic-leadership) Programs. They can combine the study of Civic Leadership with a discipline or a focus on the culture of a particular historical period. The cultural periods included are: Ancient, Medieval and Renaissance, Early Modern (17th and 18th c.), or Modern studies.

Students without one of the Humanities 591-596 sequence in their undergraduate coursework may be required to take one of these as part of their core area course work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civic Leadership (Directed Study Project only)</td>
<td>First Core Area</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Second Core Area, including:</td>
<td>9</td>
</tr>
<tr>
<td>HUM 636</td>
<td>Seminar in Civic Leadership</td>
<td></td>
</tr>
<tr>
<td>HUM 650</td>
<td>Graduate Internship (Civic Internship)</td>
<td></td>
</tr>
<tr>
<td>HUM 650</td>
<td>Graduate Internship (Internal Internship)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective (3 credits)</td>
<td></td>
</tr>
<tr>
<td>HUM 609</td>
<td>Interdisciplinary Theory: Arts and Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>
A minimum of 15 credit hours for the degree must be at the 600 level (excluding HUM 655).

1 Core Areas to be selected from the following: Art History, Literature, Classical and Modern Languages, Music History, Philosophy, Religious Studies, Theatre Arts; or in one of the following Cultural Areas: Ancient, Medieval/Renaissance, Early Modern (17th and 18th c.), or Modern studies.

2 Must be approved by advisor

**Linguistics**

Students in this track combine in a unique way the study of the interdisciplinary humanities with a specialized concentration in linguistics. Students take three core courses and then a minimum of two additional 600-level linguistics courses. Along with our Humanities faculty, students are able to study with linguists in the adjacent departments of Classical and Modern Languages, English, Philosophy, and Psychology.

In addition to the course work listed below, MA students in the Linguistics concentration must satisfy a foreign language competency requirement and complete a final oral defense of a Directed Study Project.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 603</td>
<td>Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LING 610</td>
<td>Phonetics and Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LING 630</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>or LING 640</td>
<td>Linguistic Anthropology</td>
<td></td>
</tr>
<tr>
<td>Six additional credits from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Sociocultural Linguistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING/ENGL 520</td>
<td>World English</td>
<td></td>
</tr>
<tr>
<td>LING/ENGL 523</td>
<td>History of the English Language</td>
<td></td>
</tr>
<tr>
<td>LING/ENGL 570</td>
<td>Language and Social Identity</td>
<td></td>
</tr>
<tr>
<td>LING 621</td>
<td>Sociolinguistics</td>
<td></td>
</tr>
<tr>
<td>Structural Linguistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING/ENGL 522</td>
<td>Structure of Modern English</td>
<td></td>
</tr>
<tr>
<td>LING 606</td>
<td>Historical and Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LING 620</td>
<td>Special Topics in Linguistics</td>
<td></td>
</tr>
<tr>
<td>LING 624</td>
<td>Language and Cognition</td>
<td></td>
</tr>
<tr>
<td>LING 641</td>
<td>Recent Philosophy of Language</td>
<td></td>
</tr>
<tr>
<td>Other graduate-level Linguistics courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING 600</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>LING 620</td>
<td>Special Topics in Linguistics (G)</td>
<td></td>
</tr>
<tr>
<td>LING 690</td>
<td>Seminar in Linguistics</td>
<td></td>
</tr>
<tr>
<td>Second Core Area 3</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>HUM 609</td>
<td>Interdisciplinary Theory: Arts and Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

A minimum of 15 credit hours for the degree must be at the 600 level (excluding HUM 655).

1 Students with no prior undergraduate linguistics coursework are encouraged to audit or enroll on a pass/fail (P/F) basis in LING 325. These credits will not apply to the hours needed to complete the MA degree.

2 Under direction of Linguistics affiliated faculty

3 Core Areas to be selected from the following: Art History, Literature, Classical and Modern Languages, Music History, Philosophy, Religious Studies, Theatre Arts; or in one of the following Cultural Areas: Ancient, Medieval/Renaissance, Early Modern (17th and 18th c.), or Modern studies.

**Humanities (PhD)**

Established in 2003, the University of Louisville's Doctoral Program in Humanities is a four-year course of study providing rigorous interdisciplinary training in the Humanities.

Administratively housed in the Department of Comparative Humanities, its faculty belongs to many departments across the university. Our students have the possibility to work with research-active scholars, artists, and writers across the Humanities, the Social Sciences, Studio Arts, Medicine, Law, and more.

The program was redesigned in 2013 in order to increase its focus on theoretical and global perspectives with the goal to produce top-level scholars and artists not only for the academic profession, but for innovative careers well beyond the academy.

**Program Information**

**Program Options**

The Program currently offers two specialized career tracks:

- The traditional, yet innovative, Culture, Criticism, and Contemporary Thought (C3T): for scholars oriented toward the academy, museums,
and other institutions and organizations employing doctoral degree recipients.

- The unique Public Arts and Letters (PAL): for artists and writers across fields wishing to produce works of literature, art, music, opera, performance, film, etc. that is grounded in and informed by intensive scholarship.

**Admission Requirements**

Admission to the Humanities PhD Program is exclusively for the fall semester of each academic year.

All materials must be received by January 15 for the following fall. No late applications will be accepted.

All applicants must have completed an appropriate master’s degree (MA, MFA, MDiv, or other) prior to beginning the program.

All applicants must also have fulfilled all requirements of the School of Interdisciplinary and Graduate Studies.

**Application requirements include:**

- Online Graduate Application for Admission (http://louisville.edu/graduate/apply)
- Graduate Application fee
- A current curriculum vitae
- A statement of intent (about 1000 words) focusing on the research interests and the applicant’s professional goals
- A scholarly or creative writing sample
- Official transcripts of all undergraduate- and graduate-level work
- Graduate Record Examination (GRE) General Test scores. **NOTE:** GRE scores are required; however, the Humanities Graduate Admissions Committee will do a holistic review of all the application material presented by the applicant in order to make a final decision.
- Three letters of recommendation from former professors or colleagues attesting to capability for doctoral-level work
- If applicable, proof of English proficiency

**Program Requirements**

In addition to the coursework outlined below, students are required to demonstrate basic proficiency in two classical and/or modern languages, or advanced proficiency in one (in addition to English).

It also is strongly recommended that students orient completion of specialization coursework toward a specific discipline, and supplement required coursework with elective courses in that discipline.

**Required Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 660</td>
<td>Proseminar: Introduction to Doctoral Study (Global Humanities)</td>
<td>12</td>
</tr>
<tr>
<td>HUM 661</td>
<td>Historical Perspectives on Arts &amp; Culture I</td>
<td></td>
</tr>
<tr>
<td>HUM 662</td>
<td>Historical Perspectives on Arts &amp; Culture II</td>
<td></td>
</tr>
<tr>
<td>HUM 663</td>
<td>Global Perspectives on Arts &amp; Culture</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 673</td>
<td>Topics in Cultural Theory</td>
</tr>
<tr>
<td>HUM 674</td>
<td>Topics in Aesthetic Theory</td>
</tr>
</tbody>
</table>

**Courses in Area of Specialization**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 700</td>
<td>Dissertation Research</td>
<td>9</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**

**Industrial Engineering (MEng)**

**Master of Engineering in Industrial Engineering (IE MEN)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 650</td>
<td>Graduate Internship</td>
</tr>
<tr>
<td>HUM 653</td>
<td>Doctoral Project I</td>
</tr>
<tr>
<td>HUM 654</td>
<td>Doctoral Project II</td>
</tr>
</tbody>
</table>

**Program Information**

**General Information**

The Bachelor of Science in Industrial Engineering degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Industrial Engineering degree. The Master of Engineering in Industrial Engineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Industrial Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Industrial Engineering bachelor degree program at Speed School. Therefore, students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

**Master of Engineering Program Educational Objectives**

The objectives of the five-year Master of Engineering Program are to produce ethically responsible graduates who are:

1. Successful in the professional practice of industrial engineering
2. Effective communicators and team players, and, involved in professional service and lifelong learning

**Master of Engineering Student Outcomes**

In order to achieve these objectives, the Master of Engineering has the following outcomes set for its graduates:

Graduates will demonstrate:

1. An ability to apply knowledge of mathematics, science, and engineering
2. An ability to design and conduct experiments, as well as to analyze and interpret data
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. An ability to function on multi-disciplinary teams
5. An ability to identify, formulate, and solve engineering problems
6. An understanding of professional and ethical responsibility
7. An ability to communicate effectively
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
Degree Requirements
The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.

3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/policies/mEngThesisGuidelines.

4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.

5. The MEng degree cannot be conferred prior to the BS degree.

Admission Standards
Since the Industrial Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Industrial Engineering bachelor degree program at Speed School.

The application form is available online at louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication.

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post conferral of their baccalaureate degree;

2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;

3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.

A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

Program Requirements
The Master of Engineering in Industrial Engineering degree requires the following over and above the Bachelor of Science in Industrial Engineering Degree.
The J.B. Speed School of Engineering has established the following academic performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing Section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director.

Degree Requirements

The following degree requirements are mandatory of all Master of Science candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.
2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.
4. Student has six years after their admission to the MS program to complete their degree.

The requirements for the Master of Science degree are discussed in more detail in the Degree Requirements (p. 804) section of this catalog.

Admission Standards

The admission standards for the master of science program in industrial engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/futurestudents/apply-materials/application) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework.
      All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE Combined Verbal and Quantitative Reasoning score of 300 or above.
5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in a foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.
6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School associate dean for academic affairs.
7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

Program Requirements
Requirements: Remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background. The minimum curricular requirements for the master’s program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE 515</td>
<td>Operations Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>or IE 610</td>
<td>Foundations of Optimization I</td>
<td></td>
</tr>
<tr>
<td>IE 516</td>
<td>Stochastic Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>IE 563</td>
<td>Experimental Design in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 5XX and/or 6XX Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>5XX and/or 6XX Technical Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Thesis Option</td>
<td>Master of Science Thesis in Industrial Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE 699</td>
<td>Industrial Engineering Master’s Degree Project</td>
<td></td>
</tr>
<tr>
<td>6XX Technical Elective</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 30

The master of science degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the master of science degree must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

1. For the thesis option, a student is required to select both an approved MS thesis topic and the director and members of the thesis committee. The thesis director must give approval for enrollment in IE 690.

Industrial Engineering (PhD)

Doctor of Philosophy in Industrial Engineering (IE PHD)

Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)

Department/Program Webpage: louisville.edu/speed/industrial/

Program Information

General Information

The PhD degree program is intended for persons having an accredited master’s and/or baccalaureate degree in Industrial Engineering, but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background coursework. Students interested in the PhD degree program should consult the Director of Graduate Studies in the Department of Industrial Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award doctoral degrees.

Academic Performance

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director. Students who seek to return after such a period of time must apply for readmission by completing a University of Louisville graduate application. If admitted, the student will be subject to catalog requirements in effect at the time of readmission.

Degree Requirements

The award of a Doctor of Philosophy degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. The following degree requirements are mandatory of all doctoral candidates:
Admission Standards

The admission standards for the PhD program in industrial engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.

2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.

3. The successful applicant will typically have an undergraduate grade point average of 3.00 or above (on a 4.00 scale).

4. The successful applicant will typically have a GRE Combined Verbal and Quantitative Reasoning score of 305 or above.

5. Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in a foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.

6. Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School associate dean for academic affairs.

7. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

Program Requirements

Normally, it is expected that the student will complete a master’s degree before being admitted to the PhD Program. However, qualified applicants may be admitted directly to the doctoral program after receiving a baccalaureate degree. These students will be required to complete an additional 30 credit hours of coursework at the 500 and 600 level under an individual plan developed in conjunction with the department’s Director of Graduate Studies. Also, remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background.

The minimum curricular requirements for the doctoral program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Post-Baccalaureate Coursework</td>
<td></td>
</tr>
<tr>
<td>Approved Master’s Level Coursework</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Technical Electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>IE 700</td>
<td>Dissertation Research in Industrial Engineering</td>
<td>9</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

1 Master’s-Level Coursework and/or IE Electives must be chosen so that nine (9) credit hours of core courses are taken. The core courses are listed below. IE 515, IE 516, IE 563
2 All electives must be approved by the department

Candidates for the Doctor of Philosophy degree must have a minimum final cumulative grade point average of 3.00 for all academic coursework attempted in Graduate Studies.

Instructional Technology (MEd)

Master of Education in Instructional Technology (IT MED)

Unit: College of Education and Human Development (GE)
Department: Middle and Secondary Education Department
Program Webpage: louisville.edu/education/degrees/med-it

Program Information

This program is designed for Rank II Kentucky certified teachers who would like to earn a master’s degree, pursue Rank I status and complete the endorsement for Instructional Computer Technology. The MEd in Instructional Technology was designed in collaboration with P-12 classroom teachers, district specialists, and university faculty for preparing school and district Technology Coordinators. The program leads to an Instructional Computer Technology endorsement (grades P-12) and satisfies the following student outcomes:
• Prepares candidates to be a technology-using teacher of students, as well as a Technology Coordinator for a school or district
• Meets the International Society for Technology in Education Standards (ISTE)
• Emphasizes a compendium of skills required for students to be competitive and successful in a global and digital world
• Prepares candidates to work with P-12 students
• Is taught by recognized faculty in collaboration with practitioners
• Focuses on meeting the needs of diverse learners
• Places the classroom and school as the focus of course discussions and assessments

If you are not a P-12 teacher but are interested in instructional technology, Industry IT certifications, instructional design, and state-of-the-art training development for military, government, and private industry, go to BS Workforce Leadership (http://louisville.edu/education/degrees/bs-wl) and /or MS Human Resource and Organizational Development (http://louisville.edu/education/degrees/ms-hrod).

Please note that certified teachers must have a master’s degree/Rank II status prior to admission to this program.

Admission Requirements
• Admission to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply)/MEd in Instructional Computer Technology program
• Official transcripts with a GPA of 2.75 in the Bachelor’s degree and a 3.0 GPA or higher for graduate work.
• Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.
• Acceptable scores on the GRE; Please note: when submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838.
• Two letters of recommendation
• Kentucky teaching certificate and Rank I
• Personal statement
• Signed Professional Code of Ethics/Technology User Agreement
• TOEFL is required of all students from countries in which English is not the native language; students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement).

Please note: when submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838.

Mid-point Assessment: Completion of 15 credit hours and at least half of ISTE Technology Standards met within Teacher Performance Assessment; scored Target or Exemplary on all advanced rubrics including dispositions assessment, and minimum 3.0 GPA.

Degree Assessment:
Successful completion of all required courses and all ISTE Technology Standards met within Teacher Performance Assessment; scored Target or Exemplary on all advanced rubrics including dispositions assessment; Minimum 3.0 cumulative GPA with no more than two grades of C.

1 Denotes Courses that are required for the endorsement.
2 Denotes course that must be taken in the last 6 credit hours of program study.

Interdisciplinary Studies (MA)
Master of Arts in Interdisciplinary Studies (IS MA)
Unit: School of Interdisciplinary and Graduate Studies (https://louisville.edu/graduate) (GI)

Program Information
The Master of Arts degree in Interdisciplinary Studies provides a mechanism for accommodating the interests of students and faculty in areas in which the faculty expertise is not confined to a department or individual academic unit. It permits students to establish individualized programs and groups of faculty to establish interdisciplinary tracks.

Individually-Designed Programs of Study
An individual interested in exploring advanced studies in a field that transcends established academic/institutional boundaries may design a program of study in consultation with faculty and the Associate Dean for Interdisciplinary Studies. A program for this degree must involve at least two academic departments/units and it must cross traditional disciplinary organizational structures and programmatic lines of study. An individual interested in this program will need to develop a general proposal that can be reviewed by faculty who, in turn, must agree that they will participate in the program if approved. Before agreeing to participate in the supervision of an interdisciplinary M.A. student, faculty must obtain the consent of their departmental chair or dean.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Area of Emphasis</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP 688</td>
<td>Designing a Technology Integrated Curriculum</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDAP 690</td>
<td>Teaching with Multimedia Tools</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDAP 587</td>
<td>Teaching and Learning Online</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDAP 601</td>
<td>Teaching with Emerging Technologies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDAP 681</td>
<td>Teacher Leadership in Practice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EDAP 585</td>
<td>Introduction to Educational Technology, Integrating Technology into Instruction</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>EDAP 624</td>
<td>Curriculum Theory</td>
<td></td>
<td></td>
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<tr>
<td>EDAP 629</td>
<td>Teaching Mathematics with Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDAP 687</td>
<td>Literacy, Teaching and Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDAP 689</td>
<td>Using the Internet in P-12 Teaching</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other courses, as approved by advisor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 33

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDAP 600</td>
<td>Introduction to Research Methods and Statistics</td>
<td>3</td>
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<tr>
<td>Leadership</td>
<td>Developing Collaborative Groups: Facilitating, Coaching and Mentoring</td>
<td>3</td>
</tr>
<tr>
<td>Diversity</td>
<td>Literacy Learning and Cultural Differences</td>
<td>3</td>
</tr>
<tr>
<td>or EDSP 618</td>
<td>Instructional Technology for Students With Special Needs</td>
<td>3</td>
</tr>
</tbody>
</table>
During the initial semester, the specific curricular requirements of the program must be worked out with a supervisory committee consisting of a chair and at least two additional faculty members representing at least two different departments or programs. Before the end of the first semester, the proposed program of study should be submitted to the School of Interdisciplinary and Graduate Studies for review. Students will be admitted to the School of Interdisciplinary and Graduate Studies on a conditional basis, allowing them to take courses as a non-degree student until the proposed program of study receives full approval. Students will be fully admitted to the School of Interdisciplinary and Graduate Studies after the interdisciplinary program proposal is approved.

**Interdisciplinary Tracks of Study: Interdisciplinary MA Concentrations**

Faculty may propose interdisciplinary tracks of study that will form the basis for suitable areas of concentration to train students. The track must meet the criteria outlined above in terms of minimum credit hours and the distribution of coursework across disciplinary lines. Proposed areas of concentration and interdisciplinary tracks of study will be subject to approval by the following academic bodies:

1. Unit Curriculum and Budget Committees
2. Graduate Council
3. Faculty Senate
4. Provost

The development of an interdisciplinary track is the responsibility of the faculty, but the Associate Dean for Interdisciplinary Studies will provide assistance and guidance. Participating faculty must have the consent of their departmental chair or dean to participate in an Interdisciplinary Track.

Requests for further information or assistance should be addressed to:

**Associate Dean for Interdisciplinary Studies**
School of Interdisciplinary and Graduate Studies
Houchens Building, Suite 105
University of Louisville
Louisville, Kentucky 40292
Phone: (502) 852-6495
Email: graduate@louisville.edu

**Admission Requirements**

Applicants for individualized interdisciplinary master’s programs must present complete admission credentials in order to be formally admitted by one of their constituent departments. Such formal admission must be recommended by at least one department or program offering degrees through the School of Interdisciplinary and Graduate Studies before the student may register for course work. The required credentials are:

1. The application for admission, specifying which departments the student expects to comprise the program;
2. Transcripts showing all undergraduate and graduate course work and all degrees earned;
3. Scores on the Graduate Record Examination General Test;
4. Three letters of recommendation;
5. TOEFL score if the applicant’s native language is not English and he/she has not earned a degree from a university or college in the U.S.;
6. A written statement of career objectives and rationale for the interdisciplinary research objective.

All these credentials must be sent to the Office of Graduate Admissions, University of Louisville, for distribution to the appropriate offices.

Only upon receipt of a letter of admission from the Office of Graduate Admissions may the applicant enroll for course work. There is no guarantee, however, that the desired degree program will be approved. Admission will be conditional until the program proposal has been submitted and approved by the School of Interdisciplinary and Graduate Studies. During the initial semester, the curricular requirements of the program must be worked out with a supervisory committee of at least three faculty members. The chair, as well as the majority of the committee, must be members of the Graduate Faculty.

All departments or programs in which the student proposes to take more than 3 hours of graduate course work must offer degrees through the School of Interdisciplinary and Graduate Studies; and, before submitting a program proposal, the student must have the permission of the department or program to take those courses.

**Program Proposal**

In addition to the above stipulations regarding constituent departments or programs, each interdisciplinary degree program must meet specific criteria as follows:

1. An overall minimum of 30 semester hours at 500 or 600 level.
2. A thesis (maximum of 6 hours for thesis in a 30-hour program) or six (6) additional hours of 600- level courses for non-thesis. Interdisciplinary students must enroll in GS 699 for thesis credit.
3. At least one-half of the non-thesis, non-practicum, non-internship credit hours must be at the 600 level.
4. A minimum of 6 hours of 600-level course work must be taken in each of at least two departments or programs offering degrees through the School of Interdisciplinary and Graduate Studies.
5. No single department or program may offer more than half the total number of credit hours required by the program.
6. Exclusive of thesis credit, no more than 6 hours may be taken in courses of the independent-study or practicum type; such course work may not be counted toward criteria specified in 3 or 4.
7. Courses designated as fulfilling degree requirements must be offered with sufficient frequency to permit the student to complete degree requirements within a reasonable time (two years for a 30-hour program).
8. The proposed curriculum must be submitted on the appropriate form, with approval signatures of at least three graduate faculty members.
9. Requests for approval of substitutions or alternate courses must be submitted in writing to the Associate Dean for Interdisciplinary Studies in the School of Interdisciplinary and Graduate Studies.

**Program Requirements**

Curriculum will be determined during the development of each individual student’s program proposal for the individually-designed programs. For an Interdisciplinary Track program, a core of faculty may propose a curriculum that will form the basis for an area of concentration.

Each interdisciplinary degree program must meet specific criteria, as follows:
Interdisciplinary Studies (MS)

Master of Science in Interdisciplinary Studies (IE MS)

Unit: School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate) (GI)

Program Information

The Master of Science degree in Interdisciplinary Studies provides a mechanism for accommodating the interests of students and faculty in areas in which the faculty expertise is not confined to a department or individual academic unit. It permits students to establish individualized programs and groups of faculty to establish interdisciplinary tracks.

Individually-Designed Programs of Study

An individual interested in exploring advanced studies in a field that transcends established academic/institutional boundaries may design a program of study in consultation with faculty and the Associate Dean for Interdisciplinary Studies. A program for this degree must involve at least two academic departments/units and it must cross traditional disciplinary organizational structures and programmatic lines of study. An individual interested in this program will need to develop a general proposal that can be reviewed by faculty who, in turn, must agree that they will participate in the program if approved. Before agreeing to participate in the supervision of an interdisciplinary MS student, faculty must obtain the consent of their departmental chair or dean.

During the initial semester, the specific curricular requirements of the program must be worked out with a supervisory committee consisting of a chair and at least two additional faculty members representing at least two different departments or programs. Before the end of the first semester, the proposed program of study should be submitted to the School of Interdisciplinary and Graduate Studies for review. Students will be admitted to the School of Interdisciplinary and Graduate Studies on a conditional basis, allowing them to take courses as a non-degree student, until the proposed program of study receives full approval. Students will be fully admitted to the School of Interdisciplinary and Graduate Studies after the interdisciplinary program proposal is approved.

Interdisciplinary Tracks of Study: Interdisciplinary MS Concentrations

Faculty may propose interdisciplinary tracks of study that will form the basis for suitable areas of concentration to train students. The track must meet the criteria outlined above in terms of minimum credit hours and the distribution of coursework across disciplinary lines. Proposed areas of concentration and interdisciplinary tracks of study will be subject to approval by the following academic bodies:

1. Unit Curriculum and Budget Committees
2. Graduate Council
3. Faculty Senate
4. Provost

The development of an interdisciplinary track is the responsibility of the faculty, but the Associate Dean for Interdisciplinary Studies will provide assistance and guidance. Participating faculty must have the consent of their departmental chair or dean to participate in an Interdisciplinary Track.

Requests for further information or assistance should be addressed to:

Associate Dean for Interdisciplinary Studies
School of Interdisciplinary and Graduate Studies
Houchens Building, Suite 105
University of Louisville
Louisville, Kentucky 40292
Phone: (502) 852-6495
Email: graduate@louisville.edu

Admission Requirements

Applicants for individualized interdisciplinary master’s programs must present complete admission credentials in order to be formally admitted by one of their constituent departments. Such formal admission must be recommended by at least one department or program offering degrees through the School of Interdisciplinary and Graduate Studies before the student may register for course work.

The required credentials are:

1. The application for admission, specifying which departments the student expects to comprise the program
2. Transcripts showing all undergraduate and graduate course work and all degrees earned
3. Scores on the Graduate Record Examination General Test
4. Three letters of recommendation
5. TOEFL score if the applicant’s native language is not English and he/she has not earned a degree from a university or college in the U.S.
6. A written statement of career objectives and rationale for the interdisciplinary research objective

All these credentials must be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, University of Louisville, for distribution to the appropriate offices.

Only upon receipt of a letter of admission from the School of Interdisciplinary and Graduate Studies, Graduate Admissions may the applicant enroll for course work. There is no guarantee, however, that the
desired degree program will be approved. Admission will be conditional until the program proposal has been submitted and approved by the School of Interdisciplinary and Graduate Studies. During the initial semester, the curricular requirements of the program must be worked out with a supervisory committee of at least three faculty members. The chair, as well as the majority of the committee, must be members of the Graduate Faculty.

All departments or programs in which the student proposes to take more than 3 hours of graduate course work must offer degrees through the School of Interdisciplinary and Graduate Studies and, before submitting a program proposal, the student must have the permission of the department or program to take those courses.

Program Proposal
In addition to the above stipulations regarding constituent departments or programs, each interdisciplinary degree program must meet specific criteria as follows:

1. An overall minimum of 30 credit hours at the 500 or 600 level.
2. A thesis (maximum of 6 credit hours for a thesis in a 30 credit hour program) or six (6) additional credit hours of 600-level courses for non-thesis. Interdisciplinary students must enroll in GS 699 for thesis credit.
3. At least one-half of the non-thesis, non-practicum, non-internship credit hours must be at the 600 level.
4. A minimum of 6 credit hours of 600-level course work must be taken in each of at least two departments or programs offering degrees through the School of Interdisciplinary and Graduate Studies.
5. No single department or program may offer more than half the total number of credit hours required by the program.
6. Exclusive of thesis credit, no more than 6 credit hours may be taken in courses of the independent-study or practicum type such course work may not be counted toward criteria specified in 3 or 4.
7. Courses designated as fulfilling degree requirements must be offered with sufficient frequency to permit the student to complete degree requirements within a reasonable time (two years for a 30 credit hour program).
8. The proposed curriculum must be submitted on the appropriate form, with approval signatures of at least three graduate faculty members.
9. Requests for approval of substitutions or alternate courses must be submitted in writing to the Associate Dean for Interdisciplinary Studies in the School of Interdisciplinary and Graduate Studies.

Interdisciplinary Studies (PhD)

Doctor of Philosophy in Interdisciplinary Studies (IS PHD)
Unit: School of Interdisciplinary and Graduate Studies (https://louisville.edu/graduate) (GI)
Department: Interdisciplinary Studies
Program Webpage: louisville.edu/graduate

Program Information

The Interdisciplinary PhD program provides a mechanism for accommodating the interests of students and faculty in areas in which the faculty expertise is not confined to a department or individual academic unit. It permits students to establish individualized programs and groups of faculty to establish interdisciplinary tracks.

Individually-Designed Programs of Study

An individual interested in exploring advanced studies in a field that transcends established academic/institutional boundaries may design a program of study in consultation with a faculty steering committee and the Director of the Interdisciplinary Studies Program. A program proposal must involve coursework and faculty from at least two academic departments or units and it must cross traditional disciplinary organizational structures and programmatic lines of study.

An individual interested in this program must first identify faculty willing to serve on a steering committee, which will be composed of the primary mentor and at least two additional faculty representing at least two different departments or units. Before agreeing to participate in the supervision of an interdisciplinary PhD student, faculty must obtain the consent of their departmental chair or dean.

The student will work with the steering committee to develop an Interdisciplinary Program of Study which must be submitted to the Graduate Council for review and approval before the student is allowed

Program Requirements

A curriculum will be determined during the development of each individual student’s program proposal for the individually-designed programs. For an Interdisciplinary Track program, a core of faculty may propose a curriculum that will form the basis for an area of concentration.

Each interdisciplinary degree program must meet specific criteria as follows:

1. An overall minimum of 30 credit hours at the 500 or 600 level.
2. A thesis (maximum of 6 credit hours for a thesis in a 30 credit hour program) or six (6) additional credit hours of 600-level courses for non-thesis. Interdisciplinary students must enroll in GS 699 for thesis credit.
3. At least one-half of the non-thesis, non-practicum, non-internship credit hours must be at the 600 level.
4. A minimum of 6 credit hours of 600-level course work must be taken in each of at least two departments or programs offering degrees through the School of Interdisciplinary and Graduate Studies.
5. No single department or program may offer more than half the total number of credit hours required by the program.
6. Exclusive of thesis credit, no more than 6 credit hours may be taken in courses of the independent-study or practicum type such course work may not be counted toward criteria specified in 3 or 4.
7. Courses designated as fulfilling degree requirements must be offered with sufficient frequency to permit the student to complete degree requirements within a reasonable time (two years for a 30 credit hour program).
8. The proposed curriculum must be submitted on the appropriate form, with approval signatures of at least three graduate faculty members.
9. Requests for approval of substitutions or alternate courses must be submitted in writing to the Associate Dean for Interdisciplinary Studies in the School of Interdisciplinary and Graduate Studies.
to matriculate. The Program of Study must justify the need for an interdisciplinary program and address the potential for career placement upon degree completion. The proposal must contain a curriculum plan and a description of the qualifying exam required to advance to candidacy.

**Interdisciplinary Tracks of Study: Interdisciplinary PhD Concentrations**

Faculty may propose interdisciplinary tracks of study that will form the basis for suitable areas of concentration to train students. The track must meet the criteria outlined above in terms of minimum credit hours and the distribution of coursework across disciplinary lines. Proposed areas of concentration and interdisciplinary tracks of study will be subject to approval by the following academic bodies:

1. Unit Curriculum and Budget Committees
2. Graduate Council
3. Faculty Senate
4. Provost

The development of an interdisciplinary track is the responsibility of the faculty, but the Associate Dean for Interdisciplinary Studies will provide assistance and guidance. Participating faculty must have the consent of their departmental chair or dean to participate in an Interdisciplinary Track. Students in a track of study must choose a primary mentor, but may have co-mentors.

Requests for further information or assistance should be addressed to:

**Associate Dean for Interdisciplinary Studies**
**School of Interdisciplinary and Graduate Studies**
Houchens Building, Suite 105
University of Louisville
Louisville, Kentucky 40292
Phone: (502) 852-6495
Email: graduate@louisville.edu

**Admission Requirements**

Applicants for interdisciplinary doctoral programs must present complete admission credentials and have an approved program of study in order to be formally admitted by the School of Interdisciplinary and Graduate Studies.

The required credentials are:

1. A 3.25 grade point average.
2. Scores at or above the 60th percentile on the Quantitative, Verbal, Critical Thinking and Analytical portions of the Graduate Record Exam.
3. Proof of a Baccalaureate Degree and official transcripts of all undergraduate and graduate coursework.
4. International students for whom English is not their primary language must show English language proficiency by one of the following:
   a. TOEFL examination score at or above 550 (paper based test) and a 5.0 on the TWE test, 213 (computer based test), 79 (internet based test)
   b. IELTS test score of 6.5 or higher
   c. Successfully completing the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville;
   d. Demonstration of a degree awarded by an acceptable English-language institution.
5. Three letters of recommendation from individuals who are able to comment on the student's academic abilities and potential for success in graduate studies.

**Design of Interdisciplinary Degrees**

In addition to established School of Interdisciplinary and Graduate Studies policies and requirements, each Interdisciplinary PhD Program will be required to meet specific criteria as follows:

1. The curriculum must include coursework representing each of the disciplinary areas in the interdisciplinary degree program. An overall minimum of 36 credit hours of graduate level coursework is required, but may be higher to reflect the standards for doctoral study in the disciplines represented in the interdisciplinary degree program.
2. Each program must be designed so that it is not dominated by a single department's offerings. A minimum of six credit hours of 600-level course work must be taken in each of at least two different departments or programs offering graduate degrees.
3. The curriculum plan must include coursework that provides training in research methodology deemed suitable to the interdisciplinary nature of the program.
4. A dissertation involving original research that crosses established disciplinary lines is required.
5. Faculty serving on committees and as mentors in the Interdisciplinary Studies PhD Program must have a doctorate degree or substantial evidence of relevant experience and must hold membership in the Graduate Faculty of a unit.
6. A student's primary mentor must meet their unit's minimum guidelines for directing doctoral dissertations. If a student's mentor has not directed a dissertation in the past, the student must also have a co-mentor who has previous experience directing dissertations.

**Program Requirements**

Curriculum will be determined by a student's steering committee during the development of each individual's program proposal. For an Interdisciplinary Track, a core of faculty may propose a curriculum that will form the basis for an area of concentration.

In addition to established School of Interdisciplinary and Graduate Studies policies and requirements, each Interdisciplinary PhD Program will be required to meet specific criteria as follows:

1. The curriculum must include coursework representing each of the disciplinary areas in the interdisciplinary degree program. An overall minimum of 36 credit hours of graduate level coursework is required, but may be higher to reflect the standards for doctoral study in the disciplines represented in the interdisciplinary degree program.
2. Each program must be designed so that it is not dominated by a single department's offerings. A minimum of six credit hours of 600-level course work must be taken in each of at least two different departments or programs offering graduate degrees.
3. The curriculum plan must include coursework that provides training in research methodology deemed suitable to the interdisciplinary nature of the program.
4. A dissertation involving original research that crosses established disciplinary lines is required.
5. Faculty serving on committees and as mentors in the Interdisciplinary Studies PhD Program must have a doctorate degree or substantial evidence of relevant experience and must hold membership in the Graduate Faculty of a unit.

6. A student’s primary mentor must meet their unit’s minimum guidelines for directing doctoral dissertations. If a student’s mentor has not directed a dissertation in the past, the student must also have a co-mentor who has previous experience directing dissertations.

**Interdisciplinary Studies: Concentration in Bioethics and Medical Humanities (MA)**

Master of Arts in Interdisciplinary Studies, concentration in Bioethics and Medical Humanities (IS BMH)

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences)

Department: Philosophy (http://louisville.edu/philosophy); Bioethics and Medical Humanities

Program Webpage: louisville.edu/bioethicsma

**Program Information**

The Bioethics and Medical Humanities concentration is a special track within the UofL interdisciplinary master’s program. It is overseen by the Department of Philosophy and the College of Arts & Sciences.

Bioethics is an inherently interdisciplinary field, located principally at the intersection of philosophy, the law, and the health care professions, such as clinical medicine and nursing, but drawing as well from social science disciplines as diverse as sociology, clinical psychology, and social work. The aim of the program is to provide students with the skills necessary to work in their chosen field from an enriched ethical knowledge base. Students will be exposed to the philosophical underpinnings of health care ethics as well as real-time clinical moral decision-making. This program examines concepts of race, gender, and culture as well to incorporate an ethically sound appreciation of difference and diversity.

The master’s degree in Bioethics and Medical Humanities provides professional enhancement and resources for the following groups of students:

- Current healthcare and bioscience practitioners or faculty
- Current or future members of ethics committees
- Seminary faculty or students with an interest in healthcare chaplaincy
- Dual-Degree students who wish to distinguish themselves with expertise in bioethics for their future professional, educational, and scholarly pursuits in medicine, dentistry, law, nursing, social work, or other fields
- Post-Baccalaureate students during their transition from undergraduate to professional or PhD programs

**Admission Requirements**

- Application (http://louisville.edu/graduate/apply) (online version preferred since it allows students to upload all other required materials)
- Application fee
- Transcripts from all previous academic work
- Standardized test scores: GRE, MCAT or LSAT preferred. Other scores may be accepted with prior approval. Applicants who have completed Master’s or Doctoral level degrees are exempt from this requirement.
- Two recent letters of recommendation
- The should come from those familiar with the applicant’s academic work or life long learning and speak to your ability to complete graduate level education. Discursive letters preferred.
- Curriculum vitae (CV) or resume
- Personal statement
- Your personal statement should address the question: “Why have you decided to pursue a concentration in Bioethics or Medical Humanities?” and should be between 2–4 double-spaced pages (500 - 1000 words).

Additionally, we reserve the right to request additional materials as required. For example, current employees of the university are expected to provide a letter of support from their direct supervisor.

Individuals who can’t use the online application or need to send supplemental materials can email Graduate Admissions (gradadm@louisville.edu) or mail materials (marked with applicant name, date of birth and either your university issued ID number or your social security ID number) to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
105 Houchens Building
University of Louisville
Louisville KY 40292

**Program Requirements**

The Bioethics and Medical Humanities concentration is a 33-credit hour MA program, consisting of seven required core courses and four electives. The core courses provide essential grounding in ethical theory and the foundations of bioethics, current controversies in health care ethics, and the social and political context of health care decision-making; participation in hospital rounds emphasizes the practical realities of clinical ethics, and a capstone seminar integrates program courses with each other and with students’ experience in the health care professions. Electives from the Schools of Law, Medicine, Public Health, and Social Work, as well as from the Arts and Sciences departments of History, Pan-African Studies, Philosophy, Political Science, Psychological and Brain Sciences, Sociology, and Women’s and Gender Studies diversify and allow customization of the program.

For more details about courses or electives please refer to the posted curriculum at louisville.edu/bioethicsma/curriculum.

**Coursework**

The degree requires 21 credit hours (7 classes) of core courses and 12 credit hours (4 classes) of electives:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BETH 621</td>
<td>Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>BETH 680</td>
<td>Foundations of Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>BETH 681</td>
<td>Current Controversies in Health Care Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>
Elective Courses
In addition to the core classes, 12 credit hours of electives (typically, four classes) are required for the MA. Courses must be at the 500- or 600-level. Of these four electives, one must address Social Context, one Health Care Policy and Law and the remaining two must be relevant to the degree but are not otherwise restricted. Students are encouraged to browse the entire university catalog for elective courses relevant to the degree and their interests.

All electives with prerequisites require permission of instructor to enroll. Other courses may be allowed on a case-by-case basis. Students are encouraged to find interesting electives and submit the class information for approval.

**Code** | **Title** | **Hours**
--- | --- | ---

**Social Context Approved Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH 608</td>
<td>Social and Cultural Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 663</td>
<td>Multicultural and Diversity Issues</td>
<td>3</td>
</tr>
<tr>
<td>HIST 589/ WGST 532</td>
<td>History of American Sexualities - WR</td>
<td>3</td>
</tr>
<tr>
<td>HIST 611/ WGST 691</td>
<td>Studies in American History</td>
<td>3</td>
</tr>
<tr>
<td>HUM 562/ PHIL 605</td>
<td>Selected Topics</td>
<td>3</td>
</tr>
<tr>
<td>HUM 635</td>
<td>Seminar in Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 663</td>
<td>Global Perspectives on Arts &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>LAW 826</td>
<td>Family Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 842</td>
<td>Domestic Violence</td>
<td>1-3</td>
</tr>
<tr>
<td>LAW 905</td>
<td>Women and the Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 906</td>
<td>Race and the Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 922</td>
<td>Legal Problems of the Poor</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 944</td>
<td>Poverty, Health and the Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 978</td>
<td>Disability Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 923</td>
<td>Elder Law</td>
<td>2-3</td>
</tr>
<tr>
<td>PAS 510</td>
<td>Advanced Topics in Afro-American and African Studies</td>
<td>3</td>
</tr>
<tr>
<td>PAS 615</td>
<td>Theories of Race and Racism</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 616</td>
<td>African-American Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 619</td>
<td>Topics in Philosophy of Race and Racism</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 623</td>
<td>Applied Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 690</td>
<td>Fundamentals of Diversity</td>
<td>3</td>
</tr>
<tr>
<td>POLS 668</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOC 612</td>
<td>Gender, Race, Work, and Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC 685</td>
<td>Race and Ethnicity</td>
<td>3</td>
</tr>
<tr>
<td>SW 603</td>
<td>Diversity, Oppression, and Social Justice Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 633</td>
<td>Social Work and Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SW 684</td>
<td>Spirituality and Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 697</td>
<td>Advanced Topical Seminar</td>
<td>3-4</td>
</tr>
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</table>

**Health Care Policy and Law Approved Electives**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>LAW 945</td>
<td>MEDICAL MALPRACTICE</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 946</td>
<td>Introductions to Health Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 947</td>
<td>PSY, MENTAL HLTH, &amp; LAW</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 958</td>
<td>Entrepreneurship Clinic</td>
<td>3</td>
</tr>
<tr>
<td>LAW 959</td>
<td>Genetics and the Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 980</td>
<td>MEDICINE, BIOETHICS-LAW</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 998</td>
<td>REGULATORY LAW &amp; POLICY</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 999</td>
<td>Special Topic ( Two )</td>
<td>4</td>
</tr>
<tr>
<td>NURS 613</td>
<td>Introduction to Health Care Policy</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 705</td>
<td>Community Organizing and Health Policy Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 656</td>
<td>Legal, Professional, and Ethical Issues in Clinical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 603</td>
<td>Legal and Bioethical Aspects of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>SW 602</td>
<td>Social Welfare Institutions, Policies and Services</td>
<td>3</td>
</tr>
<tr>
<td>SW 615</td>
<td>Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>SW 622</td>
<td>Issues in Policy and Service Delivery</td>
<td>3</td>
</tr>
<tr>
<td>SW 697</td>
<td>Advanced Topical Seminar</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Other Approved Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 690</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 651</td>
<td>Studies in Medieval History</td>
<td>3</td>
</tr>
<tr>
<td>HUM 635</td>
<td>Seminar in Humanities</td>
<td>3</td>
</tr>
<tr>
<td>LAW 893</td>
<td>NEGOTIATIONS</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 977</td>
<td>Animal Law</td>
<td>2-3</td>
</tr>
<tr>
<td>PHIL 522</td>
<td>Virtue Ethics - WR</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 605</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 605</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 623</td>
<td>Applied Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 612</td>
<td>Health Communications Campaigns: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>POLS 668</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>SW 626</td>
<td>Research Methodology and Design</td>
<td>3</td>
</tr>
<tr>
<td>SW 636</td>
<td>Death &amp; Grief</td>
<td>3</td>
</tr>
<tr>
<td>SW 697</td>
<td>Advanced Topical Seminar</td>
<td>3-4</td>
</tr>
<tr>
<td>SW 697</td>
<td>Advanced Topical Seminar</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Other courses may be allowed on a case-by-case basis. We encourage our students to find interesting electives and submit the class information for approval.

Most students will complete the degree requirements after two years of full-time coursework, though motivated students are welcome to complete the hours in four consecutive semesters instead. Additionally, the program has the flexibility to allow for part-time students to take up to six years to complete the degree. And for those who are pursuing a Bioethics concentration in their bachelor’s work, there is an accelerated option that allows them to complete up to 9 credit hours towards the master’s degree while an undergraduate.

For sample schedules please refer to our curriculum plans at louisville.edu/bioethicsma/curriculum-1/sample-curriculum-plans
Two-Year Schedule

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETH 680</td>
<td>Foundations of Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>BETH 621</td>
<td>Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>or BETH 682</td>
<td>or Gender, Race and Culture in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETH 681</td>
<td>Current Controversies in Health Care Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BETH 683</td>
<td>Health Care, Justice, and Community</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical Ethics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETH 621</td>
<td>Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>or BETH 682</td>
<td>or Gender, Race and Culture in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETH 684</td>
<td>Clinical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BETH 685</td>
<td>Integrative Bioethics: Self and Other in Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>33</td>
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</table>

Interdisciplinary Studies: Concentration in Sustainability (MA/MS)

Master of Arts/Master of Science in Interdisciplinary Studies, concentration in Sustainability (IS MA SUS/IS MS SUS)

Unit: School of Interdisciplinary and Graduate Studies (https://louisville.edu/graduate) (GI)

Program Information

The large-scale goal of the Master of Interdisciplinary Studies in Sustainability Degree programs (both MA and MS degree programs are available) is to prepare students to address complex regional, state, national and global challenges posed by the intersection of human exponential growth and increasingly limited resources that support society.

The exponentially rising demands that human populations make on natural resources and ecological systems that supply us with energy, food, water, and many other ecosystem services will be further threatened by climate change and the pollution of air, soil, and water. Continued reliance on a “business as usual” approach to the economic production and consumption of goods and services, often characterized by the stresses it places on The Commons and by a disregard for environmental and social justice, now threatens the ability of the natural world to absorb our collective impact, erodes our collective security, and polarizes our societies. Substantial changes in social contracts, economic systems, as well as individual and institutional behaviors will be needed to provide more sustainable, healthy and secure societies. National, regional and local experimentation is needed to find solutions to societal challenges.

This Master of Interdisciplinary Studies in Sustainability program is an initiative of the University of Louisville’s Sustainability Council which seeks to integrate sustainability into everything that goes on at UofL. Students in the program are encouraged to contribute to the Sustainability Council’s efforts to explore sustainable solutions for UofL and our community. More information about the UofL Sustainability Council can be found on their website at louisville.edu/sustainability

Admission Requirements

Applicants must have a bachelor’s degree (any major is acceptable), and provide a completed application form, a transcript of all undergraduate course work, scores for the Graduate Record Examination (GRE), a statement of purpose, and three letters of recommendation. The GRE code for the University of Louisville is 1838.

Admission is competitive. The minimum requirements for unconditional admission are the baccalaureate degree or its equivalent from an accredited institution, an undergraduate grade point average of 3.0 on a 4.0 scale, and competitive scores on all sub-tests of the Graduate Record Exam.

Those applicants whose native language is not English and who do not hold a degree from a university where the language of instruction is English, must complete the Test of English as a Foreign Language (TOEFL) with a score of at least 79 on the internet-based test or the International English Language Testing System (IELTS), with a minimum score of 6.5.

Application Deadlines

The program maintains a rolling admissions policy. The deadlines include:

- **Fall semester:** July 15
- **Spring semester:** November 15
- **Summer semester:** April 15

Application Materials

The following materials must be submitted to the School of Interdisciplinary and Graduate Studies at graduate.louisville.edu/apply/:

1. Application Form
2. Application Fee
3. Transcript(s): Transcripts of your college records from all of the schools you have attended must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. Students must have earned an undergraduate degree from an accredited college or university.*
4. Graduate Record Exam (GRE): The GRE is required for an application to the PhD program to be reviewed. The Program requires only the general sections of the GRE (Verbal, Quantitative, and Analytical Writing). Scores should be directly reported to the university using the University of Louisville institution code of 1838. Those for whom English is not their native language must also submit TOEFL scores.*
5. Three Recommendation Letters: Three letters of recommendation from academic sources are required and
must be submitted online to the School of Interdisciplinary and Graduate Studies, Graduate Admissions.

The committee for reviewing student applications will consist of faculty currently serving on the Sustainability Council’s Education Committee.

For answers to commonly asked questions by applicants, please review the Frequently Asked Questions page of the Graduate School website.

*There are additional requirements for international students. These requirements are listed at louisville.edu/graduate/futurestudents/international-applicants/international-students.

**Program Requirements**

**Required Course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PLAN 675</td>
<td>Introduction to Sustainability</td>
<td>3</td>
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</tbody>
</table>

**Core Courses**

Students are required to take one course in each Core Area:

**Sustainability and the Built Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 670</td>
<td>Sustainable Development and Planning</td>
<td>3</td>
</tr>
<tr>
<td>UPA 679</td>
<td>Environmental Policy</td>
<td>3</td>
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</table>

**Sustainability and the Natural Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 644</td>
<td>Global Change Ecology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 663</td>
<td>Climate and Environmental Change</td>
<td>3</td>
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</table>

**Sustainability and the Social Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HIST 611</td>
<td>Studies in American History</td>
<td>3</td>
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</tbody>
</table>

Research Methods or Statistics course in the student’s selected Core Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis or Portfolio</td>
<td></td>
<td>3</td>
</tr>
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</table>

Guided Electives within Core Areas (see below)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Guided Electives within Core Areas</td>
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</table>

Minimum Total Hours

<table>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

Students will work with their academic committees to select the core and elective courses needed. It is strongly recommended that a student’s committee distribute elective courses such that at least 3 or 4 credit hours are in an area other than that of the student’s home department. Other courses may be acceptable with the program director’s approval.

Twelve hours of Guided Electives must be taken in one of the following Core Areas:

**Built Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>CEE 660</td>
<td>Transportation Planning and Urban Development</td>
<td>3</td>
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<tr>
<td>CEE 661</td>
<td>Environmental Analysis of Transportation Systems</td>
<td>3</td>
</tr>
<tr>
<td>CEE 681</td>
<td>Green Engineering &amp; Sustainable Design</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 536</td>
<td>Sustainable Transportation</td>
<td>3</td>
</tr>
<tr>
<td>LAW 902</td>
<td>Real Estate Transactions</td>
<td>2-3</td>
</tr>
<tr>
<td>PLAN 670</td>
<td>Sustainable Development and Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 607</td>
<td>Land Use Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 622</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 623</td>
<td>Environmental Policy and Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 625</td>
<td>Historic Preservation and Sustainable Practice</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 636</td>
<td>Site Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 650</td>
<td>Capstone Studio</td>
<td>3</td>
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<tr>
<td>UPA 648</td>
<td>Housing and Community Development</td>
<td>3</td>
</tr>
<tr>
<td>UPA 672</td>
<td>Public Management</td>
<td>3</td>
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<tr>
<td>UPA 679</td>
<td>Environmental Policy</td>
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<tr>
<td>UPA 680</td>
<td>Special Topics in Urban and Public Affairs</td>
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**Natural Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH 528</td>
<td>Animals and Humans</td>
<td>3</td>
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<tr>
<td>ANTH 531</td>
<td>Anthropology of Water</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 535</td>
<td>Nutritional Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 567</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 644</td>
<td>Global Change Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 660</td>
<td>Advanced Ecology of Urban and Suburban Landscapes</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 663</td>
<td>Advanced Population and Community Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 667</td>
<td>Advanced Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 663</td>
<td>Climate and Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>LAW 903</td>
<td>Land and Ecosystem Conservation</td>
<td>2-3</td>
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**Social Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 530</td>
<td>Human Impacts on Past Environments</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 540</td>
<td>Health and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 626</td>
<td>Food Justice</td>
<td>3</td>
</tr>
<tr>
<td>ART 692</td>
<td>Art, Thinking &amp; Social Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 500</td>
<td>Globalization Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HIST 610</td>
<td>Introduction to Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 611</td>
<td>Studies in American History</td>
<td>3</td>
</tr>
<tr>
<td>HSS 675</td>
<td>Health Promotion and Disease Prevention at the Individual Level</td>
<td>3</td>
</tr>
<tr>
<td>HSS 676</td>
<td>Community Health Promotion and Disease Prevention</td>
<td>3</td>
</tr>
<tr>
<td>HSS 697</td>
<td>Special Topics in Health and Sport Sciences</td>
<td>1-3</td>
</tr>
<tr>
<td>LAW 931</td>
<td>Environmental Law</td>
<td>2-3</td>
</tr>
<tr>
<td>LAW 939</td>
<td>First Amendment Law</td>
<td>2</td>
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<tr>
<td>PHEH 620</td>
<td>Global Issues in Environmental and Occupational Health</td>
<td>3</td>
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<tr>
<td>PHEH 651</td>
<td>Advanced Environmental Health Services</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 612</td>
<td>Health Communications Campaigns: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 722</td>
<td>Health Risk Communication</td>
<td>3</td>
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<tr>
<td>PLAN 673</td>
<td>Behavioral Dimensions of Urban Sustainability</td>
<td>3</td>
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<tr>
<td>PLAN 674</td>
<td>Sustainable Urbanism</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 676</td>
<td>Sustainable Social-Ecological Systems</td>
<td>3</td>
</tr>
<tr>
<td>POLS 639</td>
<td>Seminar in International Relations</td>
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</tr>
<tr>
<td>SOC 610</td>
<td>Statistics II</td>
<td>3</td>
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</tbody>
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Interdisciplinary Studies: Specialization in Bioinformatics (PhD)

Doctor of Philosophy in Interdisciplinary Studies, specialization in Bioinformatics (IS_PHDINF)
Unit: School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate) (GI)
Program Webpage (https://bioinformatics.louisville.edu/phd)

Program Information
The Interdisciplinary PhD Program in Bioinformatics (the Bioinformatics Program) trains students in bioinformatics for careers in research, education, and industry. Bioinformatics is a broad and diverse domain, ranging from management of biological research databases to computational approaches to biomedical modeling and data analysis. The Bioinformatics Program focuses on those aspects of bioinformatics that reflect the research interests and experience of the Program’s faculty. These include basic research in biostatistical methodology, computer science and mathematical modeling with applications to biochemistry, cell biology, and molecular biology. The following areas have been identified and named by the Bioinformatics Program faculty to represent the focus application areas of the Program:

- Biomedical and Natural Sciences
- Computational Sciences
- Mathematics and Statistics

Students in the Bioinformatics Program specialize in one of the three focus application areas and graduate with cutting-edge expertise in this area and working knowledge in the other two focus application areas.

To earn the Doctor of Philosophy in Interdisciplinary Studies: Concentration in Bioinformatics, a student is required to successfully complete the following:

- Core coursework in the focus application areas
- Required coursework in the student’s area of specialization
- Elective courses in the student’s area of specialization
- Qualifying examination
- Dissertation
- Presentation and defense of a dissertation

Upon successful completion of the written and oral portions of the qualifying examination, the examination committee will recommend acceptance into PhD candidacy. Successful completion of the dissertation and its presentation and defense is established by the approval of the student’s dissertation committee and the approval of the chair of the sponsoring department and the program chair.

Admission Requirements
Applicants for interdisciplinary doctoral programs must present complete admission credentials and have an approved program of study in order to be formally admitted by the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply).

- A 3.25 grade point average.
- Competitive scores on the Quantitative, Verbal, Critical Thinking and Analytical portions of the Graduate Record Exam (GRE).
- Proof of a Baccalaureate Degree and official transcripts of all undergraduate and graduate course work.
- International students for whom English is not their primary language must show English language proficiency by one of the following:
  - TOEFL examination score at or above 550 (paper based test) and a 5.0 on the TWE test, 213 (computer based test), 79 (internet based test)
  - IELTS test score of 6.5 or higher
- Successfully completing the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville
- Demonstration of a degree award from an acceptable English language institution.
- Three letters of recommendation from individuals who are able to comment on the student’s academic abilities and a potential for success in graduate studies.

Programs of Study
Course requirements for the Interdisciplinary PhD Degree Program in Bioinformatics consist of 16 core credit hours (that will be conditional based upon focus area) and 21 credit hours derived from a combination of required courses from a chosen focus area and electives from each of the three focus areas. Students with an appropriate background in the biomedical and natural sciences may petition to substitute a course in either the Computational Sciences or Mathematics and Statistics focus for the core course BIOC 545 and a corresponding course in either the Computational Sciences or Mathematics and Statistics, thus maintaining 16 core credit hours. Following acceptance into a focus area, students will be required to complete three courses totaling at least nine hours from the declared focus area. At least four additional elective courses (12 credit hours) will be selected from available elective courses, with the provision that two elective courses must be selected in each of the other two focus areas. The Program of Study will be determined by the student and approved by both an advisor residing in a declared focus area department and the Executive Committee. The following tables list the required courses for the core as well as the required and elective courses in each of the focus areas. Students must accumulate at least nine (9) credit hours of dissertation.

Good standing requires that the student maintain a minimum 3.0 grade point average. Upon successful completion of the written and oral portions of the qualifying examination, the examination committee will recommend acceptance into PhD candidacy. Successful completion of the dissertation and its presentation and defense is established by the approval of the student’s dissertation committee and the approval of the chair of the sponsoring department and the program chair.

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<thead>
<tr>
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<tr>
<td>BIOC 545</td>
<td>Biochemistry I 1,2,3</td>
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<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics 1</td>
<td></td>
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<tr>
<td>BIOC 667</td>
<td>Cell Biology</td>
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<td>PSYC 571/609</td>
<td>Special Topics in Psychology 1</td>
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<td>CECS 660</td>
<td>Introduction to Bioinformatics 1</td>
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<tr>
<td>PHST 750</td>
<td>Statistics for Bioinformatics</td>
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### Focus Area Electives

#### Elective Courses in Mathematics and Statistics

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<tr>
<td>MATH 505</td>
<td>Introduction to Partial Differential Equations</td>
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<td>MATH 507</td>
<td>Fourier Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 561</td>
<td>Probability</td>
<td>3</td>
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<tr>
<td>PHYS 656</td>
<td>Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 625</td>
<td>Statistical Mechanics</td>
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<tr>
<td>MATH 636</td>
<td>Mathematical Modeling II</td>
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<tr>
<td>PHST 661</td>
<td>Probability</td>
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<tr>
<td>PHST 662</td>
<td>Mathematical Statistics</td>
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<tr>
<td>MATH 562</td>
<td>Mathematical Statistics</td>
<td>3</td>
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<tr>
<td>MATH 667</td>
<td>Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>MATH 670</td>
<td>Introduction to the Stochastic Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 681</td>
<td>Combinatorics and Graph Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 682</td>
<td>Combinatorics and Graph Theory II</td>
<td>3</td>
</tr>
<tr>
<td>PHST 682</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
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<tr>
<td>PHST 691</td>
<td>Bayesian Inference and Decision</td>
<td>3</td>
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<tr>
<td>PHST 710</td>
<td>Advanced Statistical Computing I</td>
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<td>PHST 711</td>
<td>Advanced Statistical Computing II</td>
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<tr>
<td>PHST 724</td>
<td>Advanced Clinical Trials</td>
<td>3</td>
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<td>PHST 725</td>
<td>Design of Experiments</td>
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<td>PHST 762</td>
<td>Advanced Statistical Inference</td>
<td>3</td>
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<tr>
<td>PHST 780</td>
<td>Advanced Nonparametrics</td>
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<tr>
<td>PHST 781</td>
<td>Advanced Linear Models</td>
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<tr>
<td>PHST 782</td>
<td>Generalized Linear Models</td>
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</table>

#### Elective Courses in Biomedical and Natural Sciences

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<thead>
<tr>
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<tbody>
<tr>
<td>BIOL 542</td>
<td>Gene Structure and Function - WR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 569</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 680</td>
<td>Biomolecular Interactions</td>
<td>2</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>Advanced Techniques in Biochemistry and Molecular Biology</td>
<td>4</td>
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<tr>
<td>ASNB 614</td>
<td>Molecular Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 652</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>BIOC 661</td>
<td>Molecular Mechanisms of Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 684</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Credit only for one: CHEM 645/BIOC 645, CHEM 647/BIOC 647. Students may take either the CHEM 645/BIOC 645 or CHEM 647/BIOC 647 sequence but are not allowed to take the sequence CHEM 645/BIOC 647 or CHEM 647/BIOC 645.

2. CHEM 645 may be substituted. Students may take either the BIOC 545/BIOC 547 or CHEM 645/CHEM 647 sequence but are not allowed to take the sequence BIOC 545/CHEM 647 or CHEM 645/BIOC 547.

3. Students with an appropriate background in the biomedical and natural sciences may petition to substitute a course in either the Computational Sciences or Mathematics and Statistics focus.

4. Courses selected with approval of advisor and the Executive Committee.

5. At least one elective course must be selected from each of the other two focus areas other than the student’s primary focus area.

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### Interdisciplinary Studies: Specialization in Translational Bioengineering (PhD)

**Doctor of Philosophy in Interdisciplinary Studies, specialization in Translational Bioengineering (IS_PHDTBE)**

Unit: School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate) (GI)

Program Webpage: (https://louisville.edu/translational-bioengineering)

**Program Information**

The Interdisciplinary Studies in Translational Bioengineering (ISSTTBE) PhD program is designed to provide multidisciplinary training in translational bioengineering preparing students to lead research and development in academia, industry and governmental agencies and/or to advance bioengineering technologies through start-up companies as entrepreneurs or within established biomedical companies. This program is a collaborative effort between J.B. Speed School of Engineering, the School of Medicine, the School of Dentistry, and the College of Business.

In this PhD program, students will have the opportunity to pursue graduate-level training in one of three tracks:

- Traditional Bioengineering Research
- Clinical Translational Research
Applicants must submit:

- A statement as to how the PhD ISSTBE will allow them to fulfill their career goals as identified by their focus area of interest
- Official Graduate Record Exam (GRE) verbal, quantitative, and writing assessment-analytical scores. Competitive scores on the verbal and quantitative sections will be required for admission.
- Students whose native language is non-English or degree is from a non-US accredited institution are required to submit TOEFL scores (administered by the Educational Testing Service). A minimum TOEFL score of 79 or higher on the internet-based test or 550 or higher on the paper-based test is required. Alternatively, a minimum of 6.5 on the International English Language Testing System will be accepted.

Admission Requirements

The School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply) has rigorous standards for admission into doctoral programs, and those standards apply to the ISSTBE PhD program as well. Applicants must meet School of Interdisciplinary and Graduate Studies admission requirements along with additional Program requirements. Applicants must, as a minimum, have completed a bachelor’s degree in Engineering or Medical Physics from an accredited program with a 3.25 cumulative grade point average to be considered for admission.

The ideal applicant will have completed a master’s degree in engineering (MS or MEng) at the time of application.

Applicants must submit:

1. Official transcripts of all college-level courses
2. Three letters of recommendation
3. A written statement by the applicant describing previous experience related to bioengineering
4. A statement as to how the PhD ISSTBE will allow them to fulfill their career goals as identified by their focus area of interest
5. Official Graduate Record Exam (GRE) verbal, quantitative, and writing assessment-analytical scores. Competitive scores on the verbal and quantitative sections will be required for admission.
6. Students whose native language is non-English or degree is from a non-US accredited institution are required to submit TOEFL scores (administered by the Educational Testing Service). A minimum TOEFL score of 79 or higher on the internet-based test or 550 or higher on the paper-based test is required. Alternatively, a minimum of 6.5 on the International English Language Testing System will be accepted.

Program Requirements

To earn the Doctor of Philosophy in Interdisciplinary Studies with a specialization in Translational Bioengineering (ISSTBE), students are required to successfully complete the following:

- 47 credit hours of course work beyond their bachelor’s degree (18 Core credit hours, 9 Concentration credit hours, 20 Specialization credit hours)
- Participate in the Bioengineering Seminar Series (75 percent attendance rate and 1 presentation/term as a Doctoral Candidate)
- Pass the Comprehensive Examination
- Successfully defend a dissertation (15 credit hours)
- Submit two or more peer-reviewed journal papers representing their original dissertation research

Coursework

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BE 601</td>
<td>Bioengineering Doctoral Seminar</td>
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<tr>
<td>BE 603</td>
<td>Bioengineering Research Ethics</td>
<td>8</td>
</tr>
<tr>
<td>BE 621</td>
<td>Bioinstrumentation</td>
<td>8</td>
</tr>
<tr>
<td>BE 654</td>
<td>Advanced Physiology for Engineers</td>
<td>8</td>
</tr>
<tr>
<td>BE 695</td>
<td>Bioengineering Research Design &amp; Methods</td>
<td>8</td>
</tr>
<tr>
<td>ME 565</td>
<td>Advanced Engineering Mathematics I</td>
<td>8</td>
</tr>
<tr>
<td>BE 552</td>
<td>Introduction to Tissue Engineering</td>
<td>8</td>
</tr>
<tr>
<td>BE 605</td>
<td>Tissue &amp; Molecular Biology Techniques Laboratory</td>
<td>8</td>
</tr>
<tr>
<td>BE 650</td>
<td>Advanced Biomaterials</td>
<td>8</td>
</tr>
<tr>
<td>BE 683</td>
<td>Artificial Organs</td>
<td>8</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>Advanced Techniques in Biochemistry and Molecular Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics</td>
<td>8</td>
</tr>
<tr>
<td>BIOC 680</td>
<td>Biomolecular Interactions</td>
<td>8</td>
</tr>
<tr>
<td>ME 600</td>
<td>Advanced Topics in Bioengineering</td>
<td>8</td>
</tr>
<tr>
<td>ME 640</td>
<td>Computational Methods for Medical Image Analysis</td>
<td>8</td>
</tr>
<tr>
<td>CECS 622</td>
<td>Simulation and Modeling of Discrete Systems</td>
<td>8</td>
</tr>
<tr>
<td>CECS 627</td>
<td>Digital Image Processing</td>
<td>8</td>
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<td>BE 680</td>
<td>Bio-Micro</td>
<td>8</td>
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<tr>
<td>ECE 543</td>
<td>Fundamentals of Microfabrication and MEMS</td>
<td>8</td>
</tr>
<tr>
<td>ME 640</td>
<td>Optimum Design Methods</td>
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<td>ME 647</td>
<td>Advanced Design Methods</td>
<td>8</td>
</tr>
<tr>
<td>BE 611</td>
<td>Cardiovascular Dynamics</td>
<td>8</td>
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<td>BE 639</td>
<td>Injury Biomechanics</td>
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<td>BE 658</td>
<td>Rehabilitation Engineering and Assistive Technology</td>
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<tr>
<td>ME 650</td>
<td>Biofluid Mechanics</td>
<td>8</td>
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<td>ME 652</td>
<td>Advanced Human Biodynamics</td>
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</tr>
<tr>
<td>ME 638</td>
<td>Computational Methods in Fluid Flow and Heat Transfer</td>
<td>8</td>
</tr>
</tbody>
</table>

Students must also choose one of the following concentration areas:

- Bioelectronics and Biomedical Devices
- Bioimaging and Biocomputational Modeling
- Biomechanics and Rehabilitation
- Molecular and Tissue Engineering

Students will initially be assigned an advisor to aid in course selection, to identify a primary research mentor and to choose a laboratory where they will conduct their research. Dissertation committee members will be assembled from participating faculty in the Schools of Engineering, Dentistry or Medicine, or the College of Business, representing opportunities to conduct research within a broad range of bioengineering topics and/or develop technology for a wide variety of clinical applications. Students who successfully complete the program will demonstrate excellence in designing and conducting research leading to an intellectual contribution to the field, demonstrate in-depth knowledge of their concentration area and associated scientific literature, have an understanding of the clinical relevance and ethical implications of their research, have the ability to critically analyze, evaluate and interpret research methods and findings, and have the ability to effectively communicate knowledge of their concentration area.
Specialization Area Elective Coursework (see below) 20
Dissertation 15
Minimum Total Hours 62

Specialization Area Guided Electives

Courses in Specialization must be unique from those taken to fulfill the Concentration Requirement, and must follow either Track A, B or C below. Students must work with their advisor to establish a Plan of Study for Specialization Courses. All Specialization courses must be approved by the student’s advisor prior to registration.

Track A
Traditional Bioengineering Research PhD: 18 hours from those listed below with a minimum of 6 hours in engineering courses + Teaching Practicum (2 credits)

Track B
Clinical-Translation Research PhD: 12 hours from list below designated as BIOC, ASNB, PSYC, BIOL, MBIO, OBIO, OBIO or EXP; remaining 6 hours from BE, CECS, ECE, IE, or ME + Clinical Practicum (2 hours).

Track C
Advancing Bioengineering Technologies through Entrepreneurship PhD: Nucleus Lean LaunchIT Start Up Course (3 hours), plus 12 credits from list below designated as ENTR or IMBA; remaining 6 credits from BE, CECS, ECE, IE, or ME + Clinical Practicum (2 hours).

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<td>ASNB 602</td>
<td>Fundamentals of Neuroscience</td>
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<tr>
<td>ASNB 617</td>
<td>Seminar on Developmental Neurobiology</td>
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<tr>
<td>BE 600</td>
<td>Advanced Topics in Bioengineering</td>
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<tr>
<td>BE 605</td>
<td>Tissue &amp; Molecular Biology Techniques Laboratory</td>
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<tr>
<td>BE 611</td>
<td>Cardiovascular Dynamics</td>
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<td>BE 639</td>
<td>Injury Biomechanics</td>
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<td>BE 640</td>
<td>Computational Methods for Medical Image Analysis</td>
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<td>Bio-Micro</td>
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<td>CECS 633</td>
<td>Computer Vision</td>
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<td>CECS 660</td>
<td>Introduction to Bioinformatics</td>
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<td>Digital Signal Processing</td>
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<td>Introduction to Biometrics</td>
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<td>Foundations of Polymer MEMS</td>
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<td>Business Plan Development</td>
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<td>IE 563</td>
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<td>IMBA 652</td>
<td>Venture Accelerator I</td>
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<td>ME 566</td>
<td>Advanced Engineering Mathematics II</td>
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<td>ME 638</td>
<td>Computational Methods in Fluid Flow and Heat Transfer</td>
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<td>Optimum Design Methods</td>
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<td>Biofluid Mechanics</td>
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<td>ME 651</td>
<td>Kinematics and Kinetics of Human Movement</td>
<td>3</td>
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<td>ME 652</td>
<td>Advanced Human Biodynamics</td>
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<td>Advanced Engineering Mathematics II</td>
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<td>ME 671</td>
<td>Advanced Fluid Mechanics</td>
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<td>OBIO 611</td>
<td>Craniofacial Osteology</td>
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<td>OBIO 612</td>
<td>Craniofacial Diagnostic Imaging</td>
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<td>OBIO 617</td>
<td>Advanced Oral Pathology</td>
<td>1</td>
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Dissertation Committee

By the end of the first semester, it is expected that the student has identified their Dissertation Chair. After the first year of study, the student (under the guidance of his or her advisor) must select a Dissertation Committee of five or more persons, for approval by the Program Director. The committee must consist of the student’s advisor from the Department of Bioengineering (who will act as the Dissertation Committee Chair), at least two additional faculty members from within the Department of Bioengineering, at least one faculty member from a partnering School or College, and at least one additional faculty member from outside the Department of Bioengineering.

Qualifying Examination

The PhD Qualifying Examination will be offered once per year and is to be taken by students upon completion of Core courses (with the exception of Bioengineering Seminar credits) and Concentration Area courses. The Qualifying Examination includes written and oral components. The written portion of the exam gauges student competency in fundamental bioengineering topics covered in their courses. ISSTBE affiliated faculty will submit and grade questions in their respective areas of expertise for the written portion of the Qualifying Examination. The oral portion of the examination is a formal presentation comprised of the student’s critique of a peer-reviewed journal paper selected from the student’s area of concentration, delivered to the ISSTBE Program Director and a subset of faculty with expertise in the respective concentration having Graduate
Faculty status. Students are allowed no more than two opportunities to take the Qualifying Examination (oral or written components).

**Comprehensive Examination**

To qualify for candidacy, students must pass the Qualifying Examination, maintain a minimum GPA of 3.0 and pass the Comprehensive Examination. The Comprehensive Examination requires the student to prepare a written dissertation research proposal (following an external funding agency format) that is presented, defended and approved by their Dissertation Committee. The Dissertation Committee approval constitutes passing both the written and oral portions of the Comprehensive Examination. The written portion is comprised of the student's dissertation document and the oral portion consists of the student's presentation and defense of their dissertation, including response to questions posed by their Dissertation Committee and public attendees. The Dissertation Committee will grade written and oral performance on the Comprehensive Examination separately as a Pass, Conditional Pass, or Fail. Students receiving a Conditional Pass must satisfactorily meet conditions set forth by the Dissertation Committee in order to receive a passing grade. Students receiving a failing grade on either or both portions of the Comprehensive Examination will be permitted to repeat the respective portion(s) once.

Students must meet with their Dissertation Committee at least once per year during the remainder of their PhD program, culminating in the Dissertation Defense.

**Interdisciplinary Studies: Specialization in Translational Neuroscience (PhD)**

Doctor of Philosophy in Interdisciplinary Studies, specialization in Translational Neuroscience (IS_PHDSTN)

Unit: School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate) (GI)

Program Webpage (https://louisville.edu/translational-neuroscience)

**Program Information**

The Interdisciplinary Program in Translational Neuroscience (IPTN) is a PhD program designed to provide broad training in neuroscience to prepare students for careers in academic, clinical and translational research involving the nervous system including disease, trauma, and developmental disorders.

Students will be assigned advisors initially to help them with course selection, choosing laboratories to rotate in and finding research mentors. Committee members will be assembled from the participating professors/lecturers representing a broad range of both basic and clinical Neuroscience. Individualized curricula will emphasize basic genetic, molecular, cellular, and/or systems mechanisms that underlie a wide range of neurological and neuropsychiatric diseases and disorders.

Areas of focus include:

- Spinal cord injury, motor systems, and rehabilitation
- Vision, retina, and visual pathways
- Sensory systems, autonomic nervous system, and pain
- Developmental neurobiology
- Behavioral & cognitive neuroscience
- Neuropharmacology and neurochemistry

**Admission Requirements**

1. Application to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply)
2. 3.25 grade point average
3. Competitive scores on the Quantitative, Verbal, and Critical Thinking and Analytical portions of the Graduate Record Exam (GRE) are most successful
4. Three letters of recommendation from individuals who are able to comment on the student's academic abilities and potential for success in graduate studies
5. Proof of a Baccalaureate Degree and official transcripts of all undergraduate and graduate course work
6. International students for whom English is not their primary language must show English language proficiency by one of the following:
   a. TOEFL examination score at or above 550 (paper-based test and a 5.0 on the TWE test), 213 (computer-based test), or 79 (internet-based test/iBT)
   b. IELTS test score of 6.5 or higher
   c. Demonstration of a degree award from an acceptable English language institution
   d. Successfully completing the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville (Intensive ESL offered prior to Spring 2017).

**Program Requirements**

To earn the Doctor of Philosophy in Interdisciplinary Studies: Specialization in Translational Neuroscience, a student is required to successfully complete the following:

- Core Courses
- Other required and elective courses as approved
- Qualifying examination
- Laboratory Rotations
- Original Investigation
- Dissertation and defense

**Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNB 602</td>
<td>Fundamentals of Neuroscience</td>
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</tr>
<tr>
<td>NSCI 600</td>
<td>Translational Neurosciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 650</td>
<td>Advanced Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>ASNB 606</td>
<td>Anatomy Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Recommended and Elective Courses</strong></td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>
Laboratory Rotations

It is recommended that each student will complete two rotations in different laboratories prior to the start of his/her third semester. The rotations will expose the student to different approaches and areas of research and will help the student to choose a laboratory for his/her dissertation research. Rotations will count as a 3 credit course (GS 699 Interdisciplinary Research). Rotations are graded on a pass/fail basis and a brief written rotation reports will be expected from each host investigator indicating a pass or fail grade.

Mentor and Advisory Committee

Once a student selects a mentor, he or she will form an Advisory Committee consisting of the mentor plus four additional members of the program faculty. The faculty members composing the Advisory Committee will represent a minimum of three different participating departments and include at least one faculty member with primary clinical expertise relevant to the student’s research area. The Advisory Committee may be reformulated with the permission of the Executive Committee as the student progresses towards completion of the degree.

Research Hours

Upon completion of the mandatory course work, laboratory rotations and mentor selection, research hours are taken as Original Investigation (GS 699 Interdisciplinary Research) until and after the student enters candidacy by successfully completing his/her Research Proposal and Qualifying exam.

Research Proposal and Qualifying Examination

Upon completion of course work, each student is required to prepare a Research Proposal that will be presented and defended before the end of the fall semester of year 3. The Research Proposal will consist of an NIH F31 format grant proposal that describes the student's planned research.

Preparation and defense of the proposal will consist of the following steps:

1. Develop a specific aims page and outline of the proposed experiments and present this aims page to the Advisory Committee for approval.
2. Based on the approved specific aims page and outline, prepare a Research Proposal in the F31 format.
3. Distribute the Research Proposal to the Advisory Committee at least two weeks before the presentation and defense.
4. Present the proposal in a 30-40 minute seminar, plus a question and answer period, attended by all the members of the Advisory Committee and other faculty/trainees from representative departments.
5. Appropriately answer any questions from the committee members regarding the proposal and defense.
6. Appropriately answer one written question from each committee member presented to the student during the question/answer period of the proposal presentation. These questions should be prepared by each committee member prior to the defense and should be designed to explore the various clinical/translational/basic science aspects of the proposed work and the underlying biological concepts. Each committee member will indicate on the document if the student answers the member’s question appropriately. If not, the student will be given two weeks to prepare a 1-2 page written answer that will be submitted, along with the question, to that committee member. The committee member will submit both the question and answer to the mentor indicating whether or not the student’s answer was appropriate and sufficient.

Overall success or failure will be determined by majority vote of the committee.

A student who fails the Research Proposal and Qualifying Examination will have 2 months to prepare for a second presentation with written questions that will be presented to the committee only. Failure on the second attempt will result in a recommendation of dismissal from the program. Upon successful completion, a Proposal Defense/Qualifying Examination form will be filled out by the mentor stating the outcome and will be signed by each member of the Advisory Committee. This evaluation form will become part of the student’s permanent academic record.

Annual Presentations

Each student who has completed class work is required to give a research update presentation to either the home department of the mentor or as part of the research update seminar series for the Kentucky Spinal Cord Injury Research Center. Notification of the seminar should be dispersed to the entire Neuroscience community.

Dissertation Defense

The candidate must complete all requirements for the degree of Doctor of Philosophy within four calendar years after passing the qualifying examination. The dissertation should contain data sufficient for approximately three publishable manuscripts. Upon completion of a draft of the student’s dissertation and prior to scheduling of his/her defense, the student must distribute a copy to each Advisory Committee member. The committee will have two weeks to read and approve the completed draft of the dissertation or recommend major changes that need to be completed prior to scheduling a defense date.
Once the dissertation is approved by the committee, the student will schedule a Dissertation Defense and distribute an edited copy to each committee member. The School of Interdisciplinary and Graduate Studies requires that an announcement of the defense be made at least two weeks prior to the scheduled date. The defense will consist of a public oral presentation (approximately 45 minutes in length) of the research completed during the student's graduate training. Noncommittee members in the audience will be allowed to ask questions. The general audience will then be dismissed and the student will defend the dissertation before the committee. Upon completion, a written report stating the outcome of the defense will be completed by each committee member and will become a permanent part of the student’s record.

Approval by the majority of Advisory Committee members will signify successful completion of the PhD degree.

Latin American and Latino Studies (CERT)

Graduate Certificate in Latin American and Latino Studies (LAS CLA)
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences) (GA)
Department: Latin American and Latino Studies (http://louisville.edu/latinamericanstudies)

Program Information

The Graduate Certificate in Latin American and Latino Studies (LALS) is an interdisciplinary program, involving multiple departments within the College of Arts and Sciences, which provides a specialized concentration focusing on Latin America and Latinos in the United States. This program, housed within the College of Arts and Sciences, offers students a wide range of course options that examine Latin American societies from the perspective of their history, social structure, economic and political structures, literature, art, and culture.

The fifteen-hour program may be completed as a stand-alone program or in conjunction with other graduate programs.

Admissions Requirements

Applicants need to have completed an undergraduate baccalaureate degree granted by a United States institution of higher education or its equivalent in another country. To be accepted into the LALS Graduate Certificate Program, students must meet the standard criteria for general admission to the University of Louisville School of Interdisciplinary and Graduate Studies, and supply all standard documentation required for admission.

Students wishing to pursue the graduate certificate in conjunction with a graduate degree program in another University of Louisville department should first apply and be admitted to the degree program before applying for admission to the LALS Graduate Certificate Program. The Director of the Latin American and Latino Studies Program will interview each student as part of the application process and an Admissions Committee will review applications and decide if a student may be recommended to the LALS Graduate Certificate Program.

Program Requirements

The graduate certificate in Latin American and Latino Studies requires at least 15 hours of graduate-level coursework. Three of the five required courses must be taken at the 600 level or above. Coursework toward the graduate certificate in LALS may also count toward the student’s graduate degree.

Students also must meet a minimum language requirement of three hours of previous coursework in Spanish or Portuguese at the 200 level or above, or demonstrate equivalent language proficiency.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>LALS 680</td>
<td>Issues in Latin American and Latino Studies</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 670</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>POLS 647</td>
<td>Seminar in Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 503</td>
<td>Advanced Studies in History</td>
<td></td>
</tr>
<tr>
<td>PAS 510</td>
<td>Advanced Topics in Afro-American and African Studies</td>
<td></td>
</tr>
</tbody>
</table>

Four (4) courses with a substantial Latin American content from at least three different disciplines

These may include the following disciplines but could include others if a course is offered with a substantial Latin American content: Anthropology, Art History, History, Humanities, Linguistics, Modern Languages, Pan-African Studies, Political Science, Portuguese, and Spanish, and Women's and Gender Studies. 1, 2

Minimum Total Hours 15

A single course may satisfy more than one requirement.

1 Students may not apply 500-level courses taken for undergraduate credit to the LALS graduate certificate.
2 Substitutions may be made at the discretion of the Director of Latin American and Latino Studies. Additional courses with substantial Latin American content, which are not listed below, may also be taken to fulfill the requirements for the LALS Graduate Certificate. This list is updated regularly on the LALS Website: louisville.edu/latinamericanstudies

Literacy (MEd)

Master of Education in Literacy (LITEMED)
Unit: College of Education and Human Development (http://louisville.edu/education) (GE)
Department: Advanced Education Programs (Early Childhood and Elementary Education (http://louisville.edu/education/departments/ecee), Middle and Secondary Education (http://louisville.edu/education/departments/mise))
Program Webpage (https://%20louisville.edu/education/degrees/med-re)

Program Information

The MEd in Literacy with Literacy Specialist P-12 Endorsement is designed for certified teachers who plan to seek a master’s degree. The program was designed in collaboration with P-12 classroom teachers, district specialists, and university faculty for preparing reading specialists/literacy coaches. The program leads to a Kentucky “Literacy Specialist P-12” endorsement.

Program highlights include:

- Prepares candidates to become reading specialists (work with students who are struggling readers) as well as literacy coaches (work with adults to advance literacy school-wide)
• Meets the International Literacy Association Standards for Reading Professionals (2010)
• Has a strong emphasis on the balance among knowledge, skills, and strategies
• Prepares candidates to work with students in literacy from birth through grade 12
• Uses the Kentucky Academic Standards as a guide
• Is taught by nationally recognized faculty in collaboration with practitioners
• Focuses on meeting the needs of diverse learners
• Emphasizes coaching and mentoring colleagues
• Places students’ classrooms and schools as the focus of course discussions and assessment

Admission Requirements
• Admission to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply)/MEd in Literacy program
• Kentucky teaching certificate and at least one year teaching experience
• Signed Professional Code of Ethics/Technology User Agreement
• Official transcripts with a GPA of 2.75 in the undergraduate degree and a 3.0 GPA or higher for graduate work
• Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org).

Please note: transcript evaluations can sometimes take several weeks.
• Acceptable GRE scores.
• TOEFL is required of all students from countries in which English is not the native language (students holding a baccalaureate or advanced degree from an accredited institution in the United States are exempt from this requirement).

Please note: When submitting GRE scores through ETS, have scores sent to the general University of Louisville code, 1838.
• Two letters of recommendation
• A professional statement

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP 639</td>
<td>Education Research in P-12 Setting</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 610</td>
<td>Literacy Research &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 636</td>
<td>Advanced Reading Methods P-12</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 642</td>
<td>Literacy Learning and Cultural Differences</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 678</td>
<td>Language Knowledge and Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 615</td>
<td>Measurement and Diagnosis of Literacy (9 hours of Reading Core should be completed prior to EDAP 615)</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 614</td>
<td>Supporting Struggling Readers and Writers K-12</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 618</td>
<td>Capstone Practicum in Literacy: Reading Specialist</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 641</td>
<td>Literacy Leadership and School-Wide Planning</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 679</td>
<td>Capstone Practicum in Literacy: Literacy Coach</td>
<td>3</td>
</tr>
<tr>
<td>EDAP 693</td>
<td>Teaching Writing, P-12</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective (to be approved by advisor)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Credit Hours 36

Degree Assessment
Successful completion of all required coursework; completed IRA Standards Teacher Performance Assessment; Scored Exemplary or Target on Rubrics for Advanced Candidates; minimum 3.0 GPA; no grade lower than C and no more than two grades of C in coursework.

Certification Assessment
Passing score on appropriate PRAXIS exam(s); minimum three years teaching experience is required for the Literacy Specialist Endorsement.

Degree Candidacy
Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

Mathematics (MA)

Master of Arts in Mathematics (MATHMA)

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Department: Mathematics (https://louisville.edu/math)
Program Webpage (https://louisville.edu/math/graduate)

Program Information
The University of Louisville Department of Mathematics is a research-oriented department that prides itself on delivering first-rate graduate instruction. There is a broad range of courses and ample opportunities to interact with faculty. The Department also maintains an active colloquium series with talks given by visiting mathematicians, statisticians and scientists.

Appropriate preparation for a Master of Arts in Mathematics is undergraduate coursework equivalent to a major in mathematics from an accredited university. This should include a one-year course in either analysis or abstract algebra, equivalent to MATH 501-MATH 502 and MATH 521-MATH 522 at the University of Louisville. Candidates who have not taken both must complete them by the end of the second year of their MA program.

Accelerated BA/BS-MA Option in Mathematics
Students must apply for admission to the program no later than the end of the junior year and must have completed MATH 205, MATH 206, MATH 301, and MATH 325, or equivalent courses, prior to application.
Applicants must have a minimum overall GPA of 3.5, and minimum GPA of 3.66 in mathematics courses. As part of the combined degree, students must complete MATH 405 and at least four (4) of the following: MATH 501, MATH 502, MATH 521, MATH 522, MATH 561, MATH 562, or MATH 581, including at least one sequence from among these courses.

The student may take a maximum of nine (9) credit hours for graduate credit, which will also apply to the requirements for the baccalaureate degree in Mathematics. All 600-level courses numbered 689 or below qualify, as do 500-level courses when completed in accord with the stipulations for graduate credit outlined in the syllabus.

**Admission Requirements**

Complete applications require the following:

1. Complete application form (http://louisville.edu/graduate/apply) along with paid application fee.
2. Cover letter to math department including any information you believe will help process your application. Please indicate in this letter whether you are interested in a GTA position, for example.
3. Transcripts (an official copy for each undergraduate institution attended. UofL transcripts are automatically submitted).
5. Recent (within three years) GRE scores (only the general exam is required).
6. All applicants for whom English is a second language must also submit official TOEFL scores of 79 or higher on the internet-based test, 213 or higher on the computer-based test, or 550 or higher on the paper-based test for verification of English proficiency. English proficiency can also be met by submitting official IELTS scores of at least 6.5 overall band score from the academic module exam.

**Degree Requirements**

1. Candidates must complete a program of study approved by the department. All courses (maximum of 12 credit hours total) taken outside the Department of Mathematics must have prior departmental approval.
2. All students must complete a minimum of 30 credit hours of non-thesis graduate credit, including at least 15 credit hours in the Department of Mathematics. Non-Thesis Option students must complete at least one full-year sequence in Mathematics (MATH) courses numbered 601–689. Thesis Option students are required to complete at least two full-year sequences in Mathematics (MATH) courses numbered 601–689.
3. Students must satisfy one of the following three requirements:
   - **Master’s Level Examination Option:** Pass written examination in three areas of mathematics chosen from a list prepared by the department. At most, two attempts are allowed. Examinations will be approved and administered by the departmental Graduate Studies Committee.
   - **Thesis Option:** Write a thesis on an advanced topic in the mathematical sciences. A total of two full-year sequences among courses numbered 601 through 689 must be completed.
   - **PhD Qualifier Option:** Pass two qualifier examinations for the departmental PhD Program. These examinations need not be taken together and each may be attempted at most twice.
4. Students choosing the Thesis Option must pass a final oral examination described under Requirements for the Master’s Degree (p. 804).

**Thesis Option Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Core Courses</td>
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<td>12</td>
</tr>
<tr>
<td>Choose two full-year sequences from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 601</td>
<td>Real Analysis I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 602</td>
<td>Real Analysis II</td>
<td></td>
</tr>
<tr>
<td>MATH 621</td>
<td>Algebra I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 622</td>
<td>Algebra II</td>
<td></td>
</tr>
<tr>
<td>MATH 681</td>
<td>Combinatorics and Graph Theory I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 682</td>
<td>Combinatorics and Graph Theory II</td>
<td></td>
</tr>
<tr>
<td>MATH 635</td>
<td>Mathematical Modeling I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 636</td>
<td>Mathematical Modeling II</td>
<td></td>
</tr>
<tr>
<td>MATH 663</td>
<td>Theory of Probability I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 664</td>
<td>Theory of Probability II</td>
<td></td>
</tr>
<tr>
<td>MATH 667</td>
<td>Statistical Inference</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 668</td>
<td>Linear Statistical Modeling</td>
<td></td>
</tr>
</tbody>
</table>

**Non-Thesis Elective Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 695</td>
<td>Thesis Guidance</td>
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</tbody>
</table>

Minimum Total Hours 30-36

1. All courses taken outside the Department of Mathematics must have prior departmental approval.
2. Must include at least 3 hours of Mathematics (MATH) coursework numbered 601-689 (see list below). May include up to 12 hours of approved coursework outside of the department.

**Non-Thesis Option Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Choose one full-year sequences from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 601</td>
<td>Real Analysis I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 602</td>
<td>Real Analysis II</td>
<td></td>
</tr>
<tr>
<td>MATH 621</td>
<td>Algebra I</td>
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<tr>
<td>&amp; MATH 622</td>
<td>Algebra II</td>
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<td>MATH 681</td>
<td>Combinatorics and Graph Theory I</td>
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<td>&amp; MATH 682</td>
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<td>MATH 635</td>
<td>Mathematical Modeling I</td>
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<td>&amp; MATH 636</td>
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<td>&amp; MATH 664</td>
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<td>&amp; MATH 668</td>
<td>Linear Statistical Modeling</td>
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**Elective Courses**

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<th>Code</th>
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</thead>
<tbody>
<tr>
<td>MATH 804</td>
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</table>

Minimum Total Hours 30

1. All courses taken outside the Department of Mathematics must have prior departmental approval.

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36x308

Apply online at this location: louisville.edu/graduate/apply
The PhD program in Applied and Industrial Mathematics offers a blend of advanced mathematical and statistical knowledge with the experience to apply that knowledge. Students completing the program have a unique perspective from which they can see the whole of mathematics integrated with applied and industrial needs. A broad and rigorous mathematical core combined with customized application electives and an industrial internship prepares students with life-long career skills in teaching, research, and industry.

**Prerequisites**

Undergraduate coursework equivalent to a major in mathematics from an accredited university. This should include at least a one-year course in either analysis or abstract algebra, equivalent to MATH 501-MATH 502 and MATH 521-MATH 522 at the University of Louisville.

Candidates who have not taken both must complete the second in their program.

**Dual Degree Program in Applied and Industrial Mathematics (PhD) and Biostatistics (MS)**

Dual degrees in Biostatistics and Applied and Industrial Mathematics are offered by the College of Arts and Sciences and the School of Public Health and Information Sciences. Upon completion of the program, students will receive a PhD in Applied and Industrial Mathematics and a Master of Science in Biostatistics.

**Admission Requirements**

Interested applicants should have completed undergraduate coursework equivalent to a major in mathematics from an accredited university. This should include at least a one-year course in either analysis or abstract algebra, equivalent to MATH 501-MATH 502 and MATH 521-MATH 522 at the University of Louisville.

Candidates who have not taken both sequences must complete the second in their program.

Prospective students can apply online at louisville.edu/graduate/futurestudents/apply-materials/application. Complete applications require the following:

1. Application form along with paid application fee
2. Cover letter to Mathematics department including any information you believe will help process your application. Please indicate in this letter whether you are interested in a GTA position, for example
3. Transcripts (an official copy for each undergraduate institution attended. University of Louisville transcripts are automatically submitted)
4. At least two (2) letters of recommendation
5. Recent (within three years) GRE scores (only the general exam is required)
6. All applicants for whom English is a second language must also submit official TOEFL scores of 79 or higher on the internet-based test, 213 or higher on the computer-based test, or 550 or higher on the paper-based test for verification of English proficiency. English proficiency can also be met by submitting official IELTS scores of at least 6.5 overall band score from the academic module exam.

For full consideration please submit complete applications by:

- Spring admission deadline: November 1st.
- Fall admission deadline: March 1st.
Late applications will be considered.

**Dual Degree Program in Applied and Industrial Mathematics and Biostatistics Application Procedure**

To be admitted to the program, the student is required to apply to and be accepted by both the Department of Mathematics and the Department of Bioinformatics and Biostatistics. A student seeking admission into this program must submit letters to both the Department of Mathematics and the Department of Bioinformatics and Biostatistics stating the intent to take advantage of the dual degree program, as well as their choice of the thesis or non-thesis option for the MS in Biostatistics. Students must submit two (2) recent letters of recommendation with their letter of intent. Applicants will receive written notification stating whether their admission request has been approved or disapproved.

Students currently enrolled in the PhD in Applied and Industrial Mathematics program will need to submit complete application materials to the Department of Bioinformatics and Biostatistics for admission to the MS component of the dual degree, as well as notify his/her advisor in the Department of Mathematics of the intention to enter into the dual degree program. Letters of recommendation for admission to the MS program can be taken from the letters of recommendation written for admission to the PhD program, provided they have been written sufficiently recently.

**Program Requirements**

**Doctor of Philosophy in Applied and Industrial Mathematics**

All students admitted to the program must complete the following coursework (or their approved equivalent) and other degree requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 601</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 602</td>
<td>Real Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 635</td>
<td>Mathematical Modeling I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 636</td>
<td>Mathematical Modeling II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 667</td>
<td>Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 668</td>
<td>Linear Statistical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 663</td>
<td>Theory of Probability I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 664</td>
<td>Theory of Probability II</td>
<td>3</td>
</tr>
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</table>

**Area of Specialization (see note below)**

<table>
<thead>
<tr>
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</tr>
<tr>
<td>MATH 710</td>
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**Minimum Total Hours**

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<tr>
<td>MATH 601</td>
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<td>Mathematical Modeling I</td>
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</tr>
<tr>
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<td>Mathematical Modeling II</td>
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</tr>
<tr>
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</tr>
<tr>
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<td>Linear Statistical Modeling</td>
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<tr>
<td>MATH 663</td>
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<td>3</td>
</tr>
<tr>
<td>&amp; MATH 664</td>
<td>Theory of Probability II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Topics and Area of Specialization**

In addition to the core, an application area of 18 credit hours will be required. The courses may be in a department outside Mathematics. They will be chosen in consultation with the student's advisory committee.

**Dual Degree Program in Applied and Industrial Mathematics (PhD) and Biostatistics (MS)**

**Required Courses**

The required courses for the dual degree program consist of all non-overlapping core courses for both the PhD in Applied, as well as the course requirements for the MS in Biostatistics. Courses taken to satisfy the Biostatistics component of the dual degree program can be applied to these 18 credit hours of electives which are required for the PhD in Applied and Industrial Mathematics.

Students currently enrolled in the PhD in Applied and Industrial Mathematics program will need to submit complete application materials to the Department of Bioinformatics and Biostatistics for admission to the MS component of the dual degree, as well as notify his/her advisor in the Department of Mathematics of the intention to enter into the dual degree program (see Admissions tab).

**Requirements for the PhD in Applied and Industrial Mathematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 601</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 602</td>
<td>Real Analysis II</td>
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<tr>
<td>MATH 635</td>
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<tr>
<td>&amp; MATH 636</td>
<td>Mathematical Modeling II</td>
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<td>MATH 667</td>
<td>Statistical Inference</td>
<td>3</td>
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<tr>
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</tr>
<tr>
<td>&amp; MATH 664</td>
<td>Theory of Probability II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Qualifying Examinations**

Students must pass three written examinations. Two of these will be chosen from the areas of Algebra, Combinatorics and Real Analysis. The third will be chosen from the areas of Mathematical Modeling, Mathematical Statistics and Probability. Normally, these will be taken within a year of completion of the core coursework. These examinations need not be taken together and each may be attempted at most twice.

**Industrial Internship**

Each student, with prior approval of the Graduate Studies Director, has to complete an internship in an appropriate industrial or governmental setting, or have equivalent experience.

**Computing Project**

Each student must complete an approved computer project related to the student's area of concentration.

**Candidacy Examination**

Each student must pass an oral examination in the chosen area of concentration. Usually, at most two attempts at passing this examination will be permitted. Students who wish to make a third attempt must petition the Graduate Studies Committee of the department for permissions to do so.

**Dissertation**

12 to 18 credit hours: A doctoral dissertation is required of each student.
ELECTIVE/APPLICATION AREA COURSES

18 credit hours of Application Area courses are chosen in consultation with a student’s advisory committee. These courses can be outside of the Department of Mathematics. Courses taken to satisfy the Biostatistics component of the dual degree program can be approved to satisfy these 18 credit hours.

INDUSTRIAL INTERNSHIP

Each student, with prior approval of the Graduate Studies Director and the Industrial Internship Director, has to complete an internship in an appropriate industrial or governmental setting, or have equivalent experience. The Industrial Internship required by the Department of Mathematics and the Master’s Project or Thesis required for the MS can be satisfied by a single internship and technical report which simultaneously satisfies the requirements for both degrees. Specifically, the internship must both focus on biostatistics so that it satisfies the Project or Thesis, and contain advanced mathematical content so that it satisfies the Industrial Internship. Likewise, the technical report must meet two requirements: it must satisfy the requirements for a Master’s Project report or Master’s Thesis for the MS degree and it must be written at an advanced mathematical level expected Industrial Internship. Students should enroll in the Master’s Project (PHST 675) or Master’s Thesis (PHST 666) courses during or shortly after completion of the Industrial Internship to take advantage of the combined Industrial Internship and Master’s Project/Thesis.

Dual-degree students will not be permitted to enroll in the Master’s Project (PHST 675) or Master’s Thesis (PHST 666) courses until at least 2 qualifying examinations toward the PhD in Applied and Industrial Mathematics have been completed.

OTHER REQUIREMENTS

Students must pass qualifying examinations, complete an approved computing project, and pass a candidacy examination as detailed in the catalog entry for the PhD in Applied and Industrial Mathematics.

DISSERTATION

(12-18 credit hours): In order for the student to fulfill the PhD requirements, the student must satisfy both the qualifying examination and dissertation requirements for the PhD in Applied and Industrial Mathematics. Failure to complete these requirements will not jeopardize the MS degree if all its requirements have been satisfactorily completed.

MS in Biostatistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Course Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following sequences: 1</td>
<td>6</td>
</tr>
</tbody>
</table>
Special Considerations: Students who have already completed a master’s degree in the Department of Mathematics

To preserve the spirit of a dual degree, such students need to complete 36 credit hours of courses as required for the MS in Biostatistics-Decision Science. Six (6) credit hours of the previous master's degree coursework can be applied to this requirement. The remaining semester hours must be chosen from the list of not covered by core courses approved electives for the Department of Bioinformatics and Biostatistics, with preference given to courses in the Departments of Mathematics and Bioinformatics and Biostatistics. Combined Industrial Internship, Practicum and Master’s Thesis cannot be replaced by a previous master's thesis. This requirement must be satisfied as previously described, meeting the specifications of both departments.

Master of Engineering (MEng)

Master of Engineering in Mechanical Engineering (ME MEN)
Unit: Speed School of Engineering (http://louisville.edu/speed) (SP)
Department/Program Webpage: louisville.edu/speed/mechanical/

Program Information

General Information

The Bachelor of Science in Mechanical Engineering degree will provide a student with the basis to be able to complete the Master of Engineering (MEng) in Mechanical Engineering degree. The Master of Engineering in Mechanical Engineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Since the Mechanical Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Mechanical Engineering bachelor degree program at Speed School. Therefore, students who earn an undergraduate degree at a school or university other than the University of Louisville pursue the MS degree instead of the MEng degree.

Master of Engineering Program Educational Objectives

The purpose of the five-year Master of Engineering Program is to bring together the faculty, staff, and capital resources to meet the following program educational objectives:

1. Succeed as practicing mechanical engineers in government, industry, academia, and other economic sectors.
2. Use their knowledge and skills in mathematics, science, engineering, and other disciplines to identify, define, and solve problems, and to anticipate the global, societal, and environmental impact of their solutions.
3. Understand the importance of professional licensure, and act upon that understanding by pursuing registration.
4. Comply with professional ethics codes, practice sustainable engineering, undertake professional development, and engage in lifelong technical learning.
5. Display skills in teamwork, communication, critical thinking, and leadership.
6. Demonstrate an engineering knowledge base of greater depth and breadth than that expected of baccalaureate-only graduates, helping them understand and influence contemporary technological issues as engineering innovators and managers.

Master of Engineering Student Outcomes

In order to achieve these objectives, the Master of Engineering has developed an outcomes set for its graduates.

Graduates will demonstrate:

1. The ability to apply knowledge of mathematics, science, and engineering to the solution of problems encountered in mechanical engineering practice.
2. An ability to design and conduct experiments assessing phenomena encountered during mechanical engineering practice, along with the ability to analyze and interpret the resulting data.
3. An ability to design mechanical engineering systems, components, or processes that meet specified requirements.
4. An ability to function on multidisciplinary teams in both leadership roles and as an individual contributor.
5. The ability to identify and describe mechanical engineering problems, formulate constraints, devise and assess alternative approaches, and implement an optimal solution that satisfies specified performance, cost, time, and safety requirements.
6. A solid understanding of professional and ethical responsibility in the field of mechanical engineering, as well as a record of adherence to those standards during academic coursework and cooperative education internships.
7. The ability to communicate effectively in writing, during interpersonal discussions, and through formal multimedia presentations, along with the ability to use these skills within the context of mechanical engineering practice.
8. An understanding of the impact of mechanical engineering solutions in a global and societal context.
9. An understanding of the need for, and an ability to engage in lifelong learning.
10. A knowledge of contemporary issues, along with a knowledge of how such issues influence technology evolution and implementation.
11. An ability to use the techniques, skills, and modern engineering tools necessary for the practice of mechanical engineering.
12. An ability to apply masters-level knowledge in a specialized area related to mechanical engineering.

Residency

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for MEng residency until the degree is awarded (i.e., the candidate must maintain continuous registration, including summer terms, in Graduate Studies). Failure to pay the MEng residency fee will be cause to cancel a student's residency. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. In order to be restored to residency, the student must submit a new application, have the recommendation of the department chair, receive the approval of the Associate Dean and pay the fee for each of the semesters during which the residency was void.

Academic Performance

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing is 3.00 for all academic work completed while in graduate studies.
2. Any student with a cumulative graduate GPA below 3.00 will be placed on academic warning. Students on academic warning are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms.

   Students who do not bring their cumulative graduate GPA back at or above a 3.00 in the semester immediately following Academic Warning, will be placed on Academic Probation for the next semester of enrollment. Students on probation are limited to enrollment for 13 credit hours in a fall or spring semester and seven (7) credit hours for summer terms. Any student who remains in academic probation for two consecutive terms may be considered for dismissal from the program.

3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.

4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

5. A maximum of eight (8) hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

**Degree Requirements**

The following degree requirements are mandatory of all master of engineering candidates:

1. The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

2. Master’s degree students must take at least 24 credit hours of coursework at the University of Louisville to satisfy the residency requirement for the master’s degree. A maximum of six (6) credit hours of graduate credit may be transferred from accredited institutions.

3. Students following the thesis option must follow the Procedures and Standards for Master of Engineering Theses. The guidelines are located online at louisville.edu/speed/academics/forms/MEngThesisGuidelines.

4. The total requirements must be completed within six years after admission into graduate studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the associate dean for academic and student affairs.

5. The MEng degree cannot be conferred prior to the BS degree.

**Admission Standards**

Since the Mechanical Engineering MEng is accredited as part of a five-year program with one-year of co-op experience, it is only available for students who have matriculated through the Mechanical Engineering bachelor degree program at Speed School.

The application form is available online at louisville.edu/speed/academics/forms/MEngGraduateStudiesApplication.

The requirements for admission or readmission to a master of engineering program are:

1. Submission of a completed MEng application for the field of specialization in which the student is earning a bachelor degree from the J.B. Speed School of Engineering. Students can be admitted to the MEng program with fewer than 13 credit hours of BS degree requirements remaining and no later than two years post conferral of their baccalaureate degree;  

2. Recommendation by the faculty and chair of the student’s department for admission or readmission to graduate studies;  

3. Cumulative baccalaureate grade point average of 2.75. However, those students with cumulative baccalaureate grade-point averages from 2.50 to 2.75 may be admitted upon petition and approval of the chair and faculty of the department.

A student becomes a candidate for the master of engineering degree upon admission to graduate studies and initial registration as a graduate student.

**Program Requirements**

The Master of Engineering in Mechanical Engineering degree requires the following over and above the Bachelor of Science in Mechanical Engineering Degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME Electives 1,2</td>
<td></td>
<td>18</td>
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<tr>
<td>Technical Electives 1,3</td>
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<td>6</td>
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<tr>
<td>Select one of the following:</td>
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<td>6</td>
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<tr>
<td><strong>Thesis Option:</strong></td>
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<td></td>
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<tr>
<td>ME 697</td>
<td>Master of Engineering Thesis in Mechanical Engineering 4</td>
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<tr>
<td><strong>Non-Thesis Option:</strong></td>
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<td>ME 645</td>
<td>Mechanical Engineering Structured Research Project</td>
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<td>ME Elective 1,2</td>
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<tr>
<td><strong>Minimum Total Hours</strong></td>
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<td>30</td>
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</table>

The Master of Engineering degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the Master of Engineering degree must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

A maximum of eight (8) credit hours of graduate level courses taken as an undergraduate may be used to satisfy MEng degree requirements; these courses cannot have been used to also satisfy BS degree requirements.

1. Electives must be chosen so that at least one-half of the total credits counted toward the degree, exclusive of thesis, are 600-level
2. ME Electives must be approved by the department.
3. Technical Electives can be ME or non-ME courses. Technical Electives must be approved by the student’s research advisor or the ME Director of Graduate Studies.
For the thesis option, a student is required to select both an approved 
MEng thesis topic and the director and members of the thesis 
committee during the first term of Graduate Studies. The thesis 
director must give approval for enrollment in ME 697.

Mechanical Engineering (MS)

Master of Science in Mechanical Engineering (ME MS)

Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)

Department/Program Webpage: louisville.edu/speed/mechanical/

Program Information

The Master of Science (MS) degree program is intended for persons 
having an accredited baccalaureate degree in mechanical engineering 
but is available to those with other backgrounds. Applicants with other 
backgrounds should plan on taking some undergraduate background 
coursework. Students interested in the MS degree program should 
consult the Director of Graduate Studies in the Department of Mechanical 
Engineering. The University of Louisville is accredited by the Commission 
on Colleges of the Southern Association of Colleges and Schools to 
award master’s degrees.

Academic Performance

The J.B. Speed School of Engineering has established the following 
performance policies:

1. The minimum grade point average requirement for good standing 
   and satisfaction of degree requirements is 3.00 for all academic work 
   completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria 
   shall be placed in probationary status. Please review the Academic 
   Standing Section (p. 802) within this catalog in regard to Academic 
   Probation.
3. Students receiving graduate assistantships (teaching, research or 
   service) shall be provided adequate training and shall be required to 
   understand and adhere to University policies related to these areas. 
   The performance of teaching, research and service duties by such 
   students shall be periodically evaluated. Students with teaching 
   assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet 
   other requirements as outlined in the admission letter, program 
   requirements or the university catalog may be subject to academic 
   dismissal from their programs.

All graduate students are expected to make steady and satisfactory 
progress toward the completion of degrees. Students who are not 
enrolled for a period of more than 12 months will be considered to have 
withdrawn from the program. Students who seek to return after such a 
period of time must contact the graduate program director.

Degree Requirements

The following degree requirements are mandatory of all Master of 
Science candidates:

1. The program of study must be completed with a 3.00 GPA or better 
   for all graduate courses used to satisfy degree requirements. 
   Additionally, the program of study must be completed with a 3.00 GPA 
   or better for all academic work attempted in graduate studies.
2. Masters students must take at least 24 credit hours of coursework 
at the University of Louisville to satisfy the residency requirement for 
the master’s degree. A maximum of six (6) credit hours of graduate 
credit may be transferred from accredited institutions.
3. Students following the Thesis Option must follow the Guidelines 
for the Preparation of a Thesis or Dissertation [pdf] (https:// 
sharepoint.louisville.edu/sites/SIGS/Documents/Thesis_Dissertation 
%20Guidelines.pdf)
4. Student has six years after their admission to the MS program to 
complete their degree.

The requirements for the Master of Science degree are discussed in more 
detail in the Degree Requirements (p. 804) section of this catalog.

Admission Standards

The admission standards for the master of science program in 
mechanical engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for 
      the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Results from the Graduate Record Examination (GRE),
   d. At least two letters of recommendation, and
   e. Official transcript(s) for all previous post-secondary coursework. 
      All transcripts not in English must be certified as authentic and 
      translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree 
or its equivalent from an accredited institution.
3. The successful applicant will typically have an undergraduate grade 
point average of 2.75 or above (on a 4.00 scale).
4. The successful applicant will typically have a GRE combined Verbal 
and Quantitative Reasoning score of 302 or above.
5. Admission in good standing shall be made only if all admission 
   credentials have been received, evaluated and approved and all 
   academic requirements met including a demonstration of adequate 
   background in foundational subject material. A student may be 
   admitted provisionally if academic requirements are met but 
   application materials are incomplete (usually missing letters of 
   recommendation or official transcripts and/or official score reports). 
   Students have one semester to furnish any credentials missing at the 
time of admission and may not enroll for a second consecutive term 
in provisional status.
6. Any conditional acceptance shall be made on an individual basis and 
shall require a statement of the rationale for the exception, plans for 
monitoring progress and performance and stated success criteria. 
Such justification must be provided in writing and must be accepted 
by the program chair and the Speed School Associate Dean for 
Academic Affairs.
7. International students whose primary language is not English must 
show English language proficiency by either TOEFL/IELTS score 
or demonstration of a degree award from an acceptable English 
language institution. The successful applicant will typically have 
a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or 
higher.

Program Requirements

Remedial work may be specified for those applicants who, in the opinion 
of the faculty, do not have a sufficient background.
The minimum curricular requirements for the master’s degree program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>Technical Electives 1,2</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Thesis Option</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ME 690 Master of Science Thesis in Mechanical Engineering</td>
<td>6</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Thesis Option</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME Electives 2</td>
<td>15</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

The master of science degree must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements and all academic work attempted in graduate studies.

1. Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis, are 600-level; at least 15 credit hours of coursework must be in ME.
2. Technical Electives can be ME or non-ME courses. Technical Electives must be approved by the department.
3. For the thesis option, a student is required to select both an approved MS thesis topic and the director and members of the thesis committee during the first term of Graduate Studies. The thesis director must give approval for enrollment in ME 690.

### Mechanical Engineering (PhD)

**Doctor of Philosophy in Mechanical Engineering (ME PHD)**

Unit: Speed School of Engineering (http://louisville.edu/speed) (GS)

**Department/Program Webpage:** louisville.edu/speed/mechanical/

**Program Information**

The PhD degree program is intended for persons having an accredited masters and/or baccalaureate degree in mechanical engineering but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background coursework. Students interested in the PhD degree program should consult the Director of Graduate Studies in the Department of Mechanical Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award doctoral degrees.

**Academic Performance**

The J.B. Speed School of Engineering has established the following performance policies:

1. The minimum grade point average requirement for good standing and satisfaction of degree requirements is 3.00 for all academic work completed while in graduate studies.
2. Any student who does not satisfy the published performance criteria shall be placed in probationary status. Please review the Academic Standing section (p. 802) within this catalog in regard to Academic Probation.
3. Students receiving graduate assistantships (teaching, research or service) shall be provided adequate training and shall be required to understand and adhere to University policies related to these areas. The performance of teaching, research and service duties by such students shall be periodically evaluated. Students with teaching assistantships shall be evaluated annually.
4. Students who fail to meet performance goals or who do not meet other requirements as outlined in the admission letter, program requirements or the university catalog may be subject to academic dismissal from their programs.

All graduate students are expected to make steady and satisfactory progress toward the completion of degrees. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the program. Students who seek to return after such a period of time must contact the graduate program director. Students who seek to return after such a period of time must apply for readmission by completing a University of Louisville graduate application. If admitted, the student will be subject to catalog requirements in effect at the time of readmission.

**Degree Requirements**

The award of a Doctor of Philosophy degree indicates that a student has attained mastery of a field and has demonstrated the capacity to perform independent scholarly research. The following degree requirements are mandatory of all doctoral candidates:

1. The Program of Study must be completed with a 3.00 GPA or better for all academic work attempted in Graduate Studies.
2. At least two years of study must be spent at the University of Louisville.
3. One year must be spent in full-time residency (a minimum of 18 credit hours within a 12-month period) or four terms of continuous part-time enrollment.
4. The applicant for a Doctor of Philosophy degree must pass an oral and/or written qualifying examination.
5. Admission to candidacy must not be later than the end of the ninth month prior to the awarding of the degree. Students enter Doctoral Candidacy upon completion of all coursework, qualifying exams, required research credit hours and other co-curricular requirements. Students who are enrolled in Doctoral Candidacy are considered full-time students. Enrollment in Doctoral Candidacy status must be continuously maintained year round (i.e. Fall, Spring, and Summer semesters) until the degree is awarded.
6. A dissertation is required of all candidates.
7. All candidates must pass a final oral examination. This is to be a defense of the dissertation and a demonstration of the candidate’s mastery of his/her field.
8. Ordinarily, the equivalent of three years of full-time graduate study is a minimum. However, the candidate must complete all requirements for the degree within four calendar years after passing the qualifying examination.

The requirements for the Doctor of Philosophy degree are explained in more detail in the Degree Requirements section (p. 804) of this catalog.

**Admission Standards**

The admission standards for the PhD program in mechanical engineering are as follows:

1. All admission applications for the program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
The minimum requirement for admission is a baccalaureate degree or its equivalent from an accredited institution or current enrollment in an undergraduate Speed School program.

3. International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

The successful applicant will typically have an undergraduate grade point average of 3.00 or above and a graduate grade point average of 3.25 or above (on a 4.0 scale) and a GRE Combined Verbal and Quantitative Reasoning score of 302 or above.

Admission in good standing shall be made only if all admission credentials have been received, evaluated and approved and all academic requirements met including a demonstration of adequate background in a foundational subject material. A student may be admitted provisionally if academic requirements are met but application materials are incomplete (usually missing letters of recommendation or official transcripts and/or official score reports). Students have one semester to furnish any credentials missing at the time of admission and may not enroll for a second consecutive term in provisional status.

Any conditional acceptance shall be made on an individual basis and shall require a statement of the rationale for the exception, plans for monitoring progress and performance and stated success criteria. Such justification must be provided in writing and must be accepted by the program chair and the Speed School associate dean for academic affairs.

**Program Requirements**

Normally, it is expected that the student will complete a master’s degree before being admitted to the PhD program. However, qualified applicants may be admitted directly to the doctoral program after receiving a baccalaureate degree. These students will be required to complete an additional 30 credit hours of coursework at the 500 and 600 level under an individual plan developed in conjunction with the department’s Director of Graduate Studies. Also, remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background.

The minimum curricular requirements for the doctoral program are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Master's Degree or Approved Master’s-Level Course Work</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Technical Electives</td>
<td>15</td>
</tr>
<tr>
<td>ME 700</td>
<td>Dissertation Research in Mechanical Engineering</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>60</td>
</tr>
</tbody>
</table>

Candidates for the doctor of philosophy degree must have a minimum final cumulative grade point average of 3.00 for all academic work attempted in graduate studies.

1 Technical Electives can be ME or non-ME courses. Technical Electives must be approved by the department. Students are allowed to take at most six (6) hours of Independent Study (ME 588/ME 688) as part of the 30 credit hours of coursework.

**Medieval and Renaissance Studies (CERT)**

**Graduate Certificate of Medieval and Renaissance Studies (MRSTCMR)**

- **Unit:** College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
- **Department:** History (https://louisville.edu/history)
- **Program Webpage:** (http://louisville.edu/medieval/the-graduate-certificate-in-medieval-and-renaissance-studies)

**Program Information**

The Graduate Certificate in Medieval and Renaissance Studies is designed for students who wish to pursue their interest in pre-modern and early modern culture in a supportive, interdisciplinary, and intellectually stimulating environment.

**Admission Requirements**

**Language Proficiency**

Demonstration of language proficiency by completing a graduate level language course or passing a language competency exam while enrolled in the program (the latter typically involves translating an intermediate 350-500 word passage using a dictionary over 3 hours).

The Graduate Certificate in Medieval and Renaissance Studies can be completed on its own OR in conjunction with another graduate degree.

- Hold a bachelor’s degree from an accredited college or university;
- Complete the University of Louisville, School of Interdisciplinary and Graduate Studies, Graduate Admissions application at louisville.edu/graduate/apply
- Schedule an interview with the program director, Dr. Andrew Rabin (http://louisville.edu/cgi-bin/uofl.mail?name=andrew.rabin), Department of English, University of Louisville, Louisville, KY 40292 (502) 852-1722

**Program Requirements**

1. **A total of 18 credit hours** in courses approved for graduate credit in accordance with the policies of the School of Interdisciplinary and Graduate Studies.

2. Nine (9) credit hours from the list of "Approved Medieval and Renaissance Courses" must be taken in the student’s home department. These credit hours may also count towards the student’s graduate degree. In cases where the student’s home department does not offer a sufficient number of medieval and renaissance courses, the student may develop an alternative course of study with the approval of the program director.

3. Nine (9) credit hours from the list of "Approved Medieval and Renaissance Courses" must be taken outside of the student’s home department. These credits must be distributed as follows: three (3) credit hours from the list of courses designated by the program as "History and Culture Courses"; three (3) credit hours from the list of courses designated by the program as "Textual Studies Courses"; three (3) credit hours from the list of courses designated...
Approved Medieval and Renaissance Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 551</td>
<td>Studies in Medieval History - CUE, WR</td>
</tr>
<tr>
<td>HIST 555</td>
<td>English Medieval History, 1066 to 1500 - WR</td>
</tr>
<tr>
<td>HIST 571</td>
<td>The Renaissance - CUE, WR</td>
</tr>
<tr>
<td>HIST 572</td>
<td>Age of the Reformation - WR</td>
</tr>
<tr>
<td>HIST 591</td>
<td>Civilizations of Ancient and Medieval India - CUE, WR</td>
</tr>
<tr>
<td>HIST 651</td>
<td>Studies in Medieval History</td>
</tr>
<tr>
<td>HIST 662</td>
<td>Seminar in Early Modern European History</td>
</tr>
<tr>
<td>HUM 592</td>
<td>Perspectives on Medieval Culture - WR</td>
</tr>
<tr>
<td>HUM 593</td>
<td>Perspectives on Early Modern Culture - WR</td>
</tr>
</tbody>
</table>

Textual Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 515</td>
<td>Introduction to Old English</td>
</tr>
<tr>
<td>ENGL 523</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>ENGL 541</td>
<td>Studies in Old and Middle English Literature - CUE</td>
</tr>
<tr>
<td>ENGL 542</td>
<td>Studies in Tudor and Elizabethan Literature - CUE</td>
</tr>
<tr>
<td>ENGL 561</td>
<td>Chaucer - CUE</td>
</tr>
<tr>
<td>ENGL 562</td>
<td>Shakespeare - CUE</td>
</tr>
<tr>
<td>ENGL 563</td>
<td>Milton - CUE</td>
</tr>
<tr>
<td>ENGL 591</td>
<td>History of Criticism: Plato to the New Criticism - CUE</td>
</tr>
<tr>
<td>ENGL 624</td>
<td>Old English and Middle English Language and Literature</td>
</tr>
<tr>
<td>ENGL 631</td>
<td>Renaissance Drama</td>
</tr>
<tr>
<td>ENGL 632</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>ENGL 633</td>
<td>Renaissance Poetry and Prose</td>
</tr>
<tr>
<td>ENGL 671</td>
<td>History of Rhetoric I</td>
</tr>
</tbody>
</table>

HUM 581  | Dante                                                               |
| HUM 661  | Historical Perspectives on Arts & Culture I                         |
| LAT 551  | Introduction to Medieval Latin                                      |
| LAT 552  | Readings in Medieval Latin                                          |
| PHIL 608 | Aquinas                                                             |
| SPAN 511 | Studies in Spanish Medieval Literature                              |
| SPAN 513 | Studies in Spanish Golden Age Literature                            |
| SPAN 621 | History of the Spanish Language                                      |
| LING 523 | History of the English Language                                      |

Arts and Music

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>ARTH 561</td>
<td>Studies in Medieval Art</td>
</tr>
<tr>
<td>ARTH 661</td>
<td>Topics in Medieval Art</td>
</tr>
<tr>
<td>ARTH 671</td>
<td>Topics in Renaissance Art</td>
</tr>
<tr>
<td>ARTH 571</td>
<td>Studies in Renaissance Art</td>
</tr>
<tr>
<td>MUS 549</td>
<td>Renaissance Counterpoint</td>
</tr>
<tr>
<td>MUS 652</td>
<td>Foundations of Music Theory</td>
</tr>
<tr>
<td>MUS 681</td>
<td>Music Notation to c. 1550: History, Transcription, Editing</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 18

Microbiology and Immunology (MS)

Master of Science in Microbiology and Immunology (MBIOMS)

Department/Program: Microbiology and Immunology (http://louisville.edu/medicine/departments/microbiology/degrees)

Program Information

The Department of Microbiology and Immunology, in the School of Medicine, offers a program of study leading to the degree of Master of Science. The MS program includes training in a broad range of research areas using state-of-the-art immunological, microbiological, and molecular technologies.

Admission Requirements

For admission to the MS program, the applicant must have attained a BS or BA degree with a minimum grade-point average of 3.0 (on a 4.0 point scale). All applicants accepted into the Master’s Program must be self-supporting, as financial assistance is not available. In addition, the following should be submitted online directly to the School of Interdisciplinary and Graduate Studies, Graduate Admissions: louisville.edu/graduate/apply/

- A completed application form and application fee
- Official scores of the General Test Section of the Graduate Record Examination and the TOEFL (when applicable)
- Three letters of recommendation
- A brief statement of purpose describing interests and career goals
- A current resume or curriculum vitae
- A letter of scientific support from a Department of Microbiology and Immunology faculty member (faculty agreement to mentor student in lab)
- Official transcripts of all undergraduate and graduate course work (mailed to School of Interdisciplinary and Graduate Studies)

The applicant must meet the other general requirements of the School of Interdisciplinary and Graduate Studies as outlined in the General
Information section of this catalog. The application deadline is March 1st each year. Submission prior to March 1 is strongly encouraged in order to ensure that all required materials (especially letters of reference) are received by the deadline. The applicant is expected to have completed the following undergraduate courses prior to admission to the graduate program: Introductory biology, Organic chemistry, Physics, introductory calculus, and Biochemistry.

Prospective students may be invited for a personal interview with members of the admissions committee and departmental faculty as part of the application process.

**Program Requirements**

**Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBIO 601</td>
<td>Molecular Microbiology ¹</td>
<td>2-3</td>
</tr>
<tr>
<td>or MBIO 602</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>MBIO 606</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MBIO 610</td>
<td>Methods and Analysis in the Biomedical Sciences</td>
<td>2</td>
</tr>
<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 603</td>
<td>Special Topics in Biochemistry (BMG Statistics)</td>
<td>2</td>
</tr>
<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics</td>
<td>1</td>
</tr>
<tr>
<td>MBIO 619</td>
<td>Research</td>
<td>1-12</td>
</tr>
<tr>
<td>MBIO 620</td>
<td>Thesis</td>
<td>1</td>
</tr>
</tbody>
</table>

**Electives** ²

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBIO 601</td>
<td>Molecular Microbiology ¹</td>
<td></td>
</tr>
<tr>
<td>MBIO 602</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIOC 603</td>
<td>Special Topics in Biochemistry</td>
<td></td>
</tr>
<tr>
<td>MBIO 604</td>
<td>General Virology</td>
<td></td>
</tr>
<tr>
<td>MBIO 621</td>
<td>Advanced Immunology: Innate and Adaptive Immunity</td>
<td></td>
</tr>
<tr>
<td>MBIO 622</td>
<td>Advanced Immunology of Disease</td>
<td></td>
</tr>
<tr>
<td>MBIO 689</td>
<td>Microbiota in Health and Disease</td>
<td></td>
</tr>
<tr>
<td>MBIO 687</td>
<td>Microbial Pathogenesis</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

1. If MBIO 601 is taken as a Required Course then MBIO 602 can be taken as an elective. Likewise, if MBIO 602 is taken as a Required Course then MBIO 601 can be taken as an elective.

2. Additional courses outside of the department can be taken as electives in consultation with the research advisor and director of graduate studies.

**Research Advisor and Project**

Students in the MS thesis option program are required to obtain a Research Advisor before being admitted to the program. Students should form a Thesis Committee and decide upon a research project early in the second semester of graduate study. The student, in consultation with her/his Advisor, should form a Thesis Committee of at least three (3) faculty members. The Thesis Committee will consist of two graduate faculty members with primary appointments in the Department of Microbiology and Immunology and a third graduate faculty member with primary status in another department. One of the two faculty members with primary appointments in the Department of Microbiology and Immunology will serve as Co-Advisor, if the Research Advisor does not have a primary appointment in the Department of Microbiology and Immunology. The Thesis Committee may consist of more than three faculty members, however a majority of the faculty on the Thesis Committee must have primary appointments in the Department of Microbiology and Immunology. Selection of the Research Advisor and formation of the Thesis Committee must be approved by the Associate Dean for Graduate Education in the School of Medicine.

**Evaluation of Student’s Progress**

The Thesis Committee will meet at least annually to evaluate the student’s progress. Students are expected to maintain satisfactory progress in his/her research project each semester. Students may proceed to degree candidacy provided they have successfully maintained an overall and program GPA of 3.0 or higher (with a grade no lower than a B-minus in any MBIO course), Pass grades in all required courses with Pass/Fail (P/F) grading, and successful completion of all required coursework. It is anticipated the student will complete the degree program at the end of the second year of study.

**Master’s Thesis Examination**

Students are required to write and defend a master’s degree thesis. The thesis must be a work of sufficient quality to demonstrate the student’s ability to participate effectively on a research project. Following preliminary review and approval by the Research Advisor, the thesis should be distributed to the Thesis Committee members, and a written request submitted to the School of Interdisciplinary and Graduate Studies, at least two weeks prior to the scheduled date of the final oral exam. The final oral defense/exam will be preceded by a research seminar open to all graduate faculty members, students and other interested persons. The oral exam will be administered by the Thesis Committee. A signed unbound copy of the thesis must be delivered to the School of Interdisciplinary and Graduate Studies by the published deadline date. (http://louisville.edu/registrar/registration-information/special-dates) To satisfactorily pass the thesis defense, a majority of the committee members must approve it.

Guidelines and requirements concerning the thesis and final oral examination are set forth on the School of Interdisciplinary and Graduate Studies website (https://louisville.edu/graduate/current-students).

**Non-Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBIO 601</td>
<td>Molecular Microbiology ¹</td>
<td>2-3</td>
</tr>
<tr>
<td>or MBIO 602</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>MBIO 606</td>
<td>Seminar (Fall and Spring - 1 Credit Hour each semester)</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives** ²

Select Courses to Total 18-19 Hrs:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBIO 601</td>
<td>Molecular Microbiology ¹</td>
</tr>
<tr>
<td>MBIO 602</td>
<td>Immunology</td>
</tr>
<tr>
<td>MBIO 604</td>
<td>General Virology</td>
</tr>
<tr>
<td>MBIO 610</td>
<td>Methods and Analysis in the Biomedical Sciences</td>
</tr>
<tr>
<td>MBIO 619</td>
<td>Research</td>
</tr>
</tbody>
</table>
Microbiology and Immunology (PhD)

Doctor of Philosophy in Microbiology and Immunology (MBIOPHD)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Program Webpage (https://louisville.edu/medschool/microbiology)

Program Information
The Department of Microbiology and Immunology, in the School of Medicine, offers a program of study leading to the degree of Doctor of Philosophy. The PhD program includes training in a broad range of research areas using state-of-the-art immunological, microbiological, and molecular technologies. A competitive stipend, health care benefits, a full waiver of tuition and fees are provided to all applicants accepted into the PhD Program.

Admission Requirements
For admission to the PhD program, the applicant must have attained a BS or BA degree with a minimum grade-point average of 3.0 (on a 4.0 point scale). In addition, the following should be submitted online directly to the School of Interdisciplinary and Graduate Studies, Graduate Admissions: louisville.edu/graduate/apply

- A completed application form and application fee
- Official scores of the General Test Section of the Graduate Record Examination and the TOEFL (when applicable)
- Three letters of recommendation
- A brief statement of purpose describing interests and career goals
- A current resume or curriculum vitae
- Official transcripts of all undergraduate and graduate coursework (mailed to the School of Interdisciplinary and Graduate Studies, Graduate Admissions)

The applicant must meet the other general requirements of the School of Interdisciplinary and Graduate Studies as outlined in the General Information section of this catalog. The application deadline is March 1 each year. Submission prior to March 1 is strongly encouraged in order to ensure that all required materials (especially letters of reference) are received by the deadline.

The applicant is expected to have completed the following undergraduate courses prior to admission to the PhD program (one semester of each):

- Introductory biology
- Organic chemistry
- Introductory calculus
- Biochemistry
Program Requirements

Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOC 603</td>
<td>Special Topics in Biochemistry (Spring)</td>
<td>2</td>
</tr>
<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I (Fall)</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology (Spring)</td>
<td>3</td>
</tr>
<tr>
<td>MBIO 600</td>
<td>Lab Rotations (Fall &amp; Spring)</td>
<td>1</td>
</tr>
<tr>
<td>MBIO 601</td>
<td>Molecular Microbiology (Fall)</td>
<td>2</td>
</tr>
<tr>
<td>MBIO 602</td>
<td>Immunology (Fall)</td>
<td>3</td>
</tr>
<tr>
<td>MBIO 604</td>
<td>General Virology (Spring)</td>
<td>1</td>
</tr>
<tr>
<td>MBIO 606</td>
<td>Seminar (Fall &amp; Spring)</td>
<td>1</td>
</tr>
<tr>
<td>MBIO 610</td>
<td>Methods and Analysis in the Biomedical Sciences (Fall)</td>
<td>2</td>
</tr>
<tr>
<td>MBIO 619</td>
<td>Research (Fall, Spring &amp; Summer)</td>
<td>1-12</td>
</tr>
<tr>
<td>MBIO 623</td>
<td>Scientific Writing and Hypothesis Testing (Summer)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select three courses from the list of suggested electives (at least one must be MBIO):</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>MBIO 621</td>
<td>Advanced Immunology: Innate and Adaptive Immunity (Spring)</td>
<td></td>
</tr>
<tr>
<td>MBIO 622</td>
<td>Advanced Immunology of Disease (Fall)</td>
<td></td>
</tr>
<tr>
<td>MBIO 687</td>
<td>Microbial Pathogenesis (Spring)</td>
<td></td>
</tr>
<tr>
<td>MBIO 689</td>
<td>Microbiota in Health and Disease (Fall)</td>
<td></td>
</tr>
<tr>
<td><strong>Other Approved Graduate Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>BIOC 647</td>
<td>Advanced Biochemistry II (Spring)</td>
<td></td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics (Fall)</td>
<td></td>
</tr>
<tr>
<td>BIOC 675</td>
<td>Cancer Biology (Spring)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 31

Note: Students enrolled in the MD/PhD Joint Degree Program, who have completed step I of NBME, will have satisfied all of the required course requirements except seminar, Research Ethics, Research Methods, and research. Three electives will be required. They will be required to satisfactorily complete the Qualifying Exam and successfully defend a dissertation research project, in addition to attending all journal club sessions and seminars.

Qualifying Examination

Upon successful completion of the required coursework, maintaining a minimum 3.0 GPA, and upon the recommendation of the advisor or chair, the student may take the PhD Qualifying Examination. The Qualifying Examination will consist of a written research proposal outside of his/her area of primary research and oral defense of the project. Three to five faculty with expertise in the area of the proposal will be selected by the Curriculum Committee to serve as the Examinating Committee. The student may enter degree candidacy upon receipt of satisfactory judgment from the Examining Committee and successful completion of the final semester of coursework.

Selection of a Research Advisor, Dissertation Committee and Research Proposal

Selection of the Research Advisor and specific research area is one of the most important decisions of the student's entire graduate training program and is a joint decision by the student and faculty member. Students must select a Research Advisor for their dissertation research by the end of their first year. Selection of the Research Advisor and formation of the Dissertation Committee must be approved by the Department Chair and the Dean of the School of Medicine (or their designees). The potential advisor must agree, in writing, to provide stipend and candidacy fee support from his/her research funds, following fellowship support. Upon approval of the Research Advisor, the student will formally decide upon a dissertation research project. The student and Research Advisor will form a Dissertation Committee with five (5) graduate faculty members. The committee will be composed of the advisor, three faculty members of the Department of Microbiology and Immunology, and one additional graduate faculty member from another department. If the advisor does not have a primary appointment in the Department of Microbiology and Immunology, one of the three other departmental members with a primary appointment in the department must serve as Co-Advisor. The Chairman of the Department may serve as an ex-officio member of the committee.

The committee will meet regularly to evaluate progress of the research (at least once per year). The student will also be required to present a research seminar to the department annually on this progress. When the dissertation research is completed, the committee will conduct the final oral examination in accordance with the guidelines in the General Information section of this catalog.

Middle Grades Education (RANK1)

Rank 1 Program in Middle Grades Education (MSEDRK1MAP)

Unit: College of Education and Human Development (https://louisville.edu/education) (GE)

Department: Advanced Teacher Certification Programs

Program Webpage (https://louisville.edu/education/degrees/rank)

Program Information

**Rank 1 programs are not degree programs.**

Rank 1 programs are planned graduate level programs designed for Kentucky teachers seeking rank change for salary purposes. They are recognized only in the state of Kentucky. By state regulation, Rank 1 status is sixty (60) semester hours of approved graduate credit including a master's degree.

Teachers who complete a Rank 1 program may obtain a Rank change for salary purposes in Kentucky. Through a Rank 1 program, teachers may increase their depth of knowledge in their teaching areas or in additional areas of certification, as appropriate.

Admissions Requirements

Students may apply to the program by first going to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply) website. Admission requirements include the following credentials:

- Official transcripts with a GPA of 2.75 in the Bachelor's degree and a GPA of 3.0 in the master’s degree.
- Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of
their transcript through either World Education Services (http://wes.org) (WES) or Educational Credential Evaluator (http://ece.org) (ECE). Please note that transcript evaluations can sometimes take several weeks.

- TOEFL (Students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement.)
- Teaching certificate in Middle Grades Education and a master's degree/Rank II
- Signed Professional Code of Ethics/Technology User Agreement

Please have transcripts sent to:

University of Louisville
School of Interdisciplinary and Graduate Studies
Houchens Building Room 105
Louisville, KY 40292

If transcripts are sent electronically, please have them sent to the following e-mail: gradadm@louisville.edu.

### Rank 1 Program in Middle Grades Education Advanced Practitioner
(For teachers who have earned a master's degree)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inquiry</td>
<td>3</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>EDAP 639</td>
<td>Education Research in P-12 Setting</td>
<td></td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics (or research course equivalency approved by advisor)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advocacy (Professional Leader)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>EDAP 624</td>
<td>Curriculum Theory</td>
<td></td>
</tr>
<tr>
<td>EDAP 637</td>
<td>Using Assessment to Improve Student Achievement</td>
<td></td>
</tr>
<tr>
<td>EDAP 677</td>
<td>Developing Collaborative Groups: Facilitating, Coaching and Mentoring</td>
<td></td>
</tr>
<tr>
<td>ELFH 636</td>
<td>Shaping School Culture and Community</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diversity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>EDAP 521</td>
<td>Teaching English Learners in the Classroom</td>
<td></td>
</tr>
<tr>
<td>EDAP 638</td>
<td>Instructional Strategies for Diverse Learners</td>
<td></td>
</tr>
<tr>
<td>EDAP 642</td>
<td>Literacy Learning and Cultural Differences</td>
<td></td>
</tr>
<tr>
<td>EDTP 503</td>
<td>Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds</td>
<td></td>
</tr>
</tbody>
</table>

### Middle School Education (MAT)

#### Master of Arts in Teaching in Middle School Education (MSED MAT)
Unit: College of Education and Human Development (http://catalog.louisville.edu/graduate/programs-study/master-of-arts-in-teaching-in-middle-school-education/louisville.edu/education)(GE)
Department: Middle and Secondary Education (http://louisville.edu/education/departments/mse)
Program Webpage (https://louisville.edu/education/degrees/mat-mse)

#### Program Information
The MAT in Middle School Education enables graduate students to earn their initial teaching certification for Kentucky in the content areas of English, Mathematics, Science or Social Studies, grades 5-9. Teacher candidates learn to teach through instruction in pedagogy, child development, special education, technology, and diversity. The program integrates field experiences that align both with program studies and professional education career goals.

#### Early Start Program
The Master of Arts in Teaching program in conjunction with the undergraduate programs in Chemistry, Biology, and Mathematics offers a comprehensive and professionally-focused program leading to an additional degree of MAT Middle or Secondary Education. This early start program enables superior students to receive two degrees within five years. A total of 149-152 credits are required for the dual degrees: 122-125 credits of coursework devoted toward the baccalaureate degree and 36 credits toward the MAT, with nine hours double-counted. This program will be available for students who are entering their junior year. They may take graduate level courses in the College of Education and Human Development (CEHD) in their 4th year of study.

The current qualifications for the joint degree program have been agreed upon by discipline faculty from the Colleges of Arts and Sciences and Education and Human Development. The criteria vary by
Admission Requirements

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program. Candidates considering application to the MAT program should contact the Education Advising and Student Services office (teacher@louisville.edu) prior to applying for admission.

Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Applicants must complete/satisfy the following:

1. Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.

2. Minimum test scores (http://louisville.edu/education/degrees/info/grad-mat) as required by EPSB. Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.

3. Praxis II (http://louisville.edu/education/degrees/info/mat-mse-praxis-ii) Content Exam registration and/or scores.

4. Bachelor's degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with major in content area or appropriate prerequisite courses and a minimum 2.75 Grade Point Average (official transcripts required).

5. Grade of C or higher in ENGL 102 (or equivalent).

6. C or higher in oral communication course.

7. TOEFL (http://louisville.edu/education/degrees/info/toefl).


11. Acceptable interview.

Program Requirements

Single Content Area Certification

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 602</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 501</td>
<td>General Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The above three courses must be completed prior to Content Methods course.

Choose one from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 607</td>
<td>Middle School Language Arts Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 608</td>
<td>Middle School Math Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 609</td>
<td>Middle School Science Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 610</td>
<td>Middle School Social Studies Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

Certification Assessment: After Student Teaching

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 541</td>
<td>Teaching Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 503</td>
<td>Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 620</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose the technology course appropriate for your content certification area:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 581</td>
<td>Technology Applications for Mathematics Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 582</td>
<td>Technology Applications for Science Teachers</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 580</td>
<td>Digital Citizenship: Technology and Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 36

Degree Assessment: Satisfactory dispositions assessment; all program coursework completed with 3.0 cumulative GPA (and no more than a total of two grades of C in degree courses); satisfactory teacher performance assessment (TPA).

Degree Candidacy: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

Praxis Disclaimer: Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or ets.org/praxis/ky (http://www.ets.org/praxis/ky) for current requirements.

1. Prior to Student Teaching: Satisfactory dispositions assessment; no lower than 2.0 GPA in content methods class; within 3 credits of meeting content requirements. ECPY 607 and EDTP 501, and content method course passed; satisfactory mid-point teacher performance assessment (TPA); positive recommendation from Middle/Secondary Program Committee; electronic documentation of 200 hours of diverse and approved field experiences.

2. Can be taken at any point in the program.

3. Must be taken concurrently with student teaching.

4. Must be taken concurrently.

Dual Content Area Certification

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 602</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 501</td>
<td>General Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The above three courses must be taken prior to the Content Methods Courses.

Choose two from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 607</td>
<td>Middle School Language Arts Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 608</td>
<td>Middle School Math Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 609</td>
<td>Middle School Science Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDTP 610</td>
<td>Middle School Social Studies Methods</td>
<td>4</td>
</tr>
</tbody>
</table>
The Alternative Certification program is designed to assist local school districts in meeting the demand for qualified teachers in high need content areas. The program provides candidates with an opportunity to pursue initial teacher certification while working as a full-time teacher on a temporary provisional license.

Employment is not required for initial acceptance to the program. However, candidates must be employed in a Kentucky-accredited school by the start of the school year in order to continue in the program. This program is a two-year, 30-credit hour program resulting in initial teacher certification and a Master of Arts in Teaching (MAT) degree.

### Admission Requirements

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching, Alternative Certification program:

1. Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Minimum Test Scores (http://louisville.edu/education/degrees/info/gre-mat) as required by EPSB
   
   Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. Passing scores on content Praxis II Exam(s) (http://louisville.edu/education/degrees/info/mat-ac-praxis-ii)
4. Bachelor’s Degree (http://louisville.edu/education/degrees/info/bachelors) from Accredited College or University with a major in content area and a minimum 2.75 Grade Point Average (official transcripts (http://louisville.edu/education/degrees/info/transcripts) required)
5. Prerequisite Course Requirements (http://louisville.edu/education/degrees/info/mat-mse-prereq) – Applicants may apply to the program with up to six credit hours of content remaining to complete.
6. Grade of C or higher in ENGL 102 (or equivalent)
7. Grade of C or higher in oral communication course
8. TOEFL (http://louisville.edu/education/degrees/info/托福) – Applicants must have a TOEFL score of 550 or higher
10. Three Letters of Recommendation (http://louisville.edu/education/degrees/info/or)
11. Experience working with diverse groups of children/adolescents
12. Acceptable interview

Candidates considering application to the MAT program should contact the Education Advising and Student Services office (teacher@louisville.edu) prior to applying for admission.

Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 631</td>
<td>Integrated Teaching and Learning I</td>
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</tr>
<tr>
<td>EDTP 632</td>
<td>Integrated Teaching and Learning II</td>
<td>3</td>
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<tr>
<td>Choose one from the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTP 607</td>
<td>Middle School Language Arts Methods</td>
<td></td>
</tr>
<tr>
<td>EDTP 608</td>
<td>Middle School Math Methods</td>
<td></td>
</tr>
<tr>
<td>EDTP 609</td>
<td>Middle School Science Methods</td>
<td></td>
</tr>
<tr>
<td>EDTP 610</td>
<td>Middle School Social Studies Methods</td>
<td></td>
</tr>
<tr>
<td>EDTP 633</td>
<td>Integrated Teaching and Learning III</td>
<td>3</td>
</tr>
</tbody>
</table>

### Program Information

The Alternative Certification program is designed to assist local school districts in meeting the demand for qualified teachers in high need content areas. The program provides candidates with an opportunity to pursue initial teacher certification while working as a full-time teacher on a temporary provisional license.
The Master of Music Composition (MM) degree (http://louisville.edu/music/academics/degrees-majors/master-of-music-degrees) at UofL is a two-year program of study designed to further the expertise and experience of students who have already completed an undergraduate degree in music composition (or its equivalent). While most students who are admitted into the MM Composition program have received undergraduate degrees in music composition, students without an undergraduate degree in music composition may be accepted in the MM composition program if they 1) demonstrate compositional skills and experience approximately equivalent to an undergraduate degree in composition, and 2) hold a Bachelor of Music degree or its equivalent.

General Information Regarding Academic Policies

1. Detailed curricular and program offerings, including specific requirements and provisions for degree programs, are published in the university catalog. Students will be provided with copies of the "Handbook for Graduate Studies in Music", the "Guidelines for Preparation for the Graduate Music History Entrance Examination," and "Guidelines for Preparation for the Graduate Music Theory Entrance Examination." These documents are also available on the School of Music website at louisville.edu/music/.

2. Students will be required to address any deficiencies revealed by entrance examinations in courses taken within the first two semesters of study. Credit toward the degree is not granted for review coursework.

3. All students are required to complete Bibliography and Research Methods (MUS 607) by the end of the second semester of study (part-time students by the completion of 15 hours of graduate study). Upon satisfactory completion of requirements stated in Handbook sections B.2 and B.3, students will be considered in good standing.

4. Students will complete a project appropriate to the field of study as defined by the faculty of their program. The completion of this project (public recital, thesis, professional paper) normally takes place in the last semester of graduate study. Preparation and presentation of a recital must follow the guidelines in the "Handbook for Graduate Studies in Music" and the preparation of a thesis must follow the "Guidelines for the Preparation and Processing of Theses" issued by the School of Interdisciplinary and Graduate Studies. The preparation of a thesis in music composition must also follow the "School of Music Thesis Formatting Guidelines for MM in Composition" available at louisville.edu/music/academics/areas-of-study/music-composition/documents/ULCompThesisGuidelines.pdf.

5. In order to graduate, a student must be in good standing with a minimum cumulative grade point average of 3.0. No more than six (6) hours with any C or C+ grade will be accepted toward a degree, and no grade below a B-minus will be accepted for a course in the student's major subject area. Hours earned beyond the minimum in any curricular areas apply only to that area and cannot be assigned to another area in order to satisfy required credit. At least one-half of the total hours in graduate courses must be at the 600 level.

Any exceptions to the program of study must be approved by the Graduate Studies Committee. A student whose cumulative GPA falls below 3.0, or who fails to satisfy the published performance criteria,
will be placed on probation. Students are ordinarily not permitted to continue on probation for more than one semester.

6. When all coursework and projects have been satisfactorily completed, the student becomes a candidate for the degree and is approved to take the graduate oral examination. A candidate who fails the oral examination at the end of one semester may not be given a second one before the end of the following semester. A candidate who fails the second oral examination will not be granted the degree of MM or MME from the University of Louisville.

7. Upon request, a maximum of six (6) credit hours of earned graduate credit with a minimum grade of B may be transferred from accredited institutions that offer advanced degrees. Credit for applied music will not be transferred, but advanced standing may be awarded at a jury. Ensemble credits appropriate to the student’s degree program may be considered for transfer, but not to exceed one (1) credit hour per semester. Music history and music theory credits will be evaluated for transfer by the Director of Graduate Studies and the respective faculty. Transfer of more than six (6) credit hours may be requested provided that they are not earned by extension, or as thesis or practicum hours, and that the residency requirement of 24 semester hours is maintained by the addition of University of Louisville credits to the total program. Transfer of graduate hours within the University of Louisville toward a graduate degree in music may be requested provided that the minimum residence requirement of 24 credit hours is maintained.

8. Students receiving a graduate assistantship (teaching, research, or service) will be provided with adequate training and will be required to adhere to university policies. Performance of duties in research and service by graduate assistants will be periodically evaluated. Students with teaching assistantships will be evaluated each semester.

9. Part-time students (with the exception of those in the MME degree program) must participate in one ensemble for every 18 hours of completed coursework. If part-time study precludes completing ensemble degree requirements, other coursework may be substituted.

**Admission Requirements**

1. Applications for admission to a graduate program require the following:
   a. Completed application and application fee
   b. Official transcripts for all previous post-secondary course work (all transcripts not in English must be certified as authentic and translated verbatim into English)
   c. At least two letters of recommendation
   d. Scores from the General Test Section of the Graduate Record Examination (GRE) that must be submitted prior to the beginning of study.

2. Applications to specific degree programs require evidence of preparation for advanced study as follows:
   a. In performance, an acceptable audition
   b. In academic specializations (music composition, music history, music theory), a portfolio of work appropriate to the field of study
   c. In music education, evidence of classroom teaching experience

3. Applicants whose primary language is not English must show English language proficiency in one of the following ways:
   a. Minimum TOEFL examination score of 550 on the paper-based test, 213 on the computer-based test, or 79-80 on the internet-based test
   b. Successful completion of the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville
   c. Documentation of the award of a degree from a recognized English language institution.

4. Applicants must possess a baccalaureate degree from an accredited institution in the area to be pursued in advanced studies, or they must present evidence of equivalent preparation.

5. Applicants must have a minimum cumulative undergraduate grade point average of 2.75 on a 4-point scale.

Applicants who meet the requirements listed in items 1-5 will be considered for conditional admission for graduate study at the School of Music. For additional entrance requirements specific to the degree of interest, consult the section relevant to the degree program below. Entrance examinations in music history, theory and, if appropriate, jazz, will be administered before the first term of study. The School of Music provides guidelines to assist in preparing for the entrance examinations. Any exception to the above expectations will be evaluated individually and will require a statement indicating criteria to be met in a specified time frame with provisions for monitoring progress and performance.

**Prerequisites**

1. Bachelor of Music degree or equivalent.

2. A demonstration, by examination, of skills and capacities in the following fields:
   a. Written, aural, and keyboard harmony
   b. Melodic, harmonic, and rhythmic dictation
   c. Elementary counterpoint
   d. History and literature of music, and analytic understanding of musical forms and genres

3. Evidence of preparation for advanced work in the area, as follows:
   a. Applicants for the track in Music Composition must submit original works to indicate ability and technical facility in the field of composition. Students should also have a thorough and practical knowledge of piano, as well as a thorough knowledge in the areas of string, brass, woodwind, and percussion instruments.
   b. GRE scores

**Program Requirements**

**Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 500</td>
<td>Music History Review 1</td>
<td>0</td>
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<tr>
<td>MUS 400</td>
<td>Theory Review 1</td>
<td>0</td>
</tr>
<tr>
<td>MUS 600</td>
<td>Graduate Oral Exam Preparation</td>
<td>0</td>
</tr>
<tr>
<td>MUS 607</td>
<td>Bibliography and Research Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Music History Seminar (600 level)</td>
<td>3</td>
</tr>
<tr>
<td>Music Theory 2</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Additional Music Theory or Music History Seminar (500 or 600 level) 3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3
Music Composition Concentration completed. All students must pass an oral examination after all coursework is completed.

**Other Requirements**

All students must pass an oral examination after all coursework is completed.

1. These courses may be satisfied by passing the entrance examinations in these areas.
2. Students should take Introduction to Electronic and Computer Music (MUS 667) and Advanced Topics in Computer Music (MUS 668).
3. Students in Electronic Music Composition Track should take AUDI 648 offered by Heuser Hearing Institute and Audiology Department in lieu of an additional Theory or History Seminar.

**Concentration Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 643</td>
<td>Advanced Private Instruction in Composition and Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUS 644</td>
<td>Advanced Composition and Orchestration II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 645</td>
<td>Advanced Composition and Orchestration III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 669</td>
<td>Graduate Composition Seminar</td>
<td>0</td>
</tr>
<tr>
<td>Applied Music</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credit Hours (Concentration)** 13

**Minimum Total Hours (Degree)** 36

1. Graduate composition majors are required to present public performances of their works within at least two semesters of their enrollment, for a total of at least 20 minutes of music. The graduate thesis will not be granted final approval until this requirement is met.
2. Co-requisite for MUS 643.
3. 500 level or above; minimum of two semesters may include Conducting or Seminar in Conducting MUS 659/MUS 660 (sections designated for students who are not conducting majors), but excludes additional semesters of Applied Composition.
4. Must be approved by the Director of Computer Music Studies.

**Electronic Music Composition Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 643</td>
<td>Advanced Private Instruction in Composition and Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUS 683</td>
<td>Composition for Digital Media</td>
<td>2</td>
</tr>
<tr>
<td>MUS 684</td>
<td>Composition for Digital Media II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 669</td>
<td>Graduate Composition Seminar</td>
<td>0</td>
</tr>
<tr>
<td>Applied Music</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Computer Music or New Media Elective</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours (Concentration)** 13

**Minimum Total Hours (Degree)** 36

1. Graduate composition majors are required to present public performances of their works within at least two semesters of their enrollment, for a total of at least 20 minutes of music. The graduate thesis will not be granted final approval until this requirement is met.
2. Co-requisite for MUS 643.
3. 500 level or above; minimum of two semesters may include Conducting or Seminar in Conducting MUS 659/MUS 660 (sections designated for students who are not conducting majors), but excludes additional semesters of Applied Composition.
4. Must be approved by the Director of Computer Music Studies.

**Music Education (MAT)**

**Master of Arts in Teaching in Music Education (EDMUMAT)**

Unit: College of Education and Human Development (http://louisville.edu/education) (GE)

Department: Middle and Secondary Education (http://louisville.edu/education/degrees/teacher)

Program Webpage (https://louisville.edu/education/degrees/mat-me)

**Program Information**

The MAT in Music Education program enables graduate students to earn their initial teaching certification for Kentucky, grades P-12. The teacher candidates learn to teach through instruction in pedagogy, child development, special education, technology, and diversity.

The Department of Teaching and Learning is committed to the highest standards of professional preparation. Our programs have sought and received national accreditation from the National Council for Accreditation of Teacher Education.

Graduates of initial teacher certification programs at the University of Louisville begin their teaching careers secure in the knowledge that they have been prepared for the real world of classrooms through a rigorous teacher preparation program.

The School of Music provides each student with a copy of the “Handbook for Graduate Music Students.” Students are expected to read the Music Handbook and the Graduate Catalog and to follow regulations and procedures regarding their specific degree program at the University of Louisville.

**Admission Requirements**

Candidates to initial teacher certification programs are required to submit credentials supporting their academic ability, creativity and collaboration, communication and critical thinking skills, positive disposition, and commitment to the teaching profession. These credentials include test scores, transcripts, writing samples, and letters of recommendation which support the candidate’s ability to succeed in a rigorous teacher education program. Competitive candidates will be invited to a formal, faculty interview (http://louisville.edu/education/degrees/info/interview).

Candidates for admission should review the following which outlines the expectations of the teaching profession:

1. Professional Code of Ethics for Kentucky School Personnel [PDF] (http://louisville.edu/education/degrees/forms/Ethics%20Technology%20Forms%20August%202008.pdf)
2. CEHD Acceptable Use of Technology Agreement [PDF] (http://louisville.edu/education/degrees/forms/Ethics%20Technology%20Forms%20August%202008.pdf)
3. Character and Fitness Questionnaire [PDF] (http://louisville.edu/education/degrees/forms/character-fitness-questionnaire.pdf)
4. Professional Dispositions Rubric [PDF] (http://louisville.edu/education/degrees/forms/dispositions-rubric.pdf)
5. Diversity Rubric [PDF] (http://louisville.edu/education/degrees/forms/diversity-rubric.pdf)
6. Effective Written Communication Rubric [PDF] (http://louisville.edu/education/degrees/forms/effective-written-communication-rubric.pdf)

Application

Questions about the application should be directed to teacher@louisville.edu. Candidates will be notified via e-mail regarding the admission decision no later than six weeks after the application deadline. Applicants who are selected for admission will receive information about a mandatory orientation session.

Application Deadlines

University of Louisville Music Education students applying for the MAT program should have already applied and been accepted, to the College of Education and Human Development teacher education program. The teacher education admission deadline occurs February 1 each year and the application is typically submitted in the Spring semester of the sophomore year. For more information about this process, please click on the "how to apply" tab at louisville.edu/education/degrees/bme.

All students must be admitted to teacher education to enroll in MUED coursework.

University of Louisville undergraduate students who plan to pursue the MAT program will submit an online graduate application during the last semester of their senior year. Please see Admission Criteria below. Application deadline: March 1st for Fall admission.

Admission Criteria for application to the MAT program

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program. Candidates considering applying to the MAT program should contact Dr. Robert Amchin—(502) 852-0536—prior to applying for admission. Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

1. Application to Graduate School (http://graduate.louisville.edu/apply)
2. Passing Test Scores (http://louisville.edu/education/degrees/info/gre-mat) (GRE, PRAXIS, PRAXIS I)
   Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. PRAXIS II exams (official scores or registration ticket) (http://louisville.edu/education/degrees/info/mat-mse-praxis-ii)
4. Bachelor’s Degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with a minimum 2.75 Grade Point Average (University of Louisville students are not required to submit a UofL transcript)
5. Prerequisite Course Requirements (http://louisville.edu/education/degrees/info/mat-me-prereq)

6. Letters of Recommendation (http://louisville.edu/education/degrees/info/lof) (Letters submitted previously with teacher education application may be used).
7. Professional Writing Requirements (http://louisville.edu/education/degrees/info/mat-mse-professional-statement) (Professional Writing Requirements submitted previously with teacher education application may be used).
8. Tuberculosis (TB) Skin Test Result Form [PDF] (http://louisville.edu/education/degrees/forms/tb_testform.pdf) (send completed form directly to teacher@louisville.edu)

Need help preparing for the GRE or Praxis II exams? Sign up for a GRE or Praxis II Information Sessions (http://louisville.edu/education/admissions/testing).

Program Requirements

Prerequisites

Completion of the pre-teacher education courses: ECPY 507/ECPY 607 Learning Theory and Human Growth and Development, EDTP 502/EDTP 602 Exploring Teaching within the Socio-Cultural Context of P-12 Schools, and MUED 556 Special Methods in Secondary Teaching; appropriate bachelor’s degree or specific music education content required. For specific admission requirements, contact the School of Music.

Professional Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUED 628</td>
<td>Qualitative Research Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUED 629</td>
<td>Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 630</td>
<td>Quantitative Research Methods &amp; Materials in Music Education</td>
<td>2</td>
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<td>MUED 639</td>
<td>Learning Theories in Music Education</td>
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<tr>
<td>MUS 511</td>
<td>Principal Applied Study</td>
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<tr>
<td>or MUS 611</td>
<td>Applied Music</td>
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<tr>
<td>or MUS 659</td>
<td>Seminar in Conducting I</td>
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<tr>
<td>MUS 512</td>
<td>Principal Applied Study</td>
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<tr>
<td>or MUS 612</td>
<td>Applied Music</td>
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<tr>
<td>or MUS 660</td>
<td>Seminar in Conducting II</td>
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Exit Requirements

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<td>MUED 607</td>
<td>Student Teaching Seminar I</td>
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<td>MUED 609</td>
<td>Capstone Seminar (Second semester of student teaching)</td>
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<td>MUED 610</td>
<td>Music Student Teaching in the Elementary/ Secondary Schools I (CE)</td>
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<tr>
<td>MUED 611</td>
<td>Music Student Teaching in the Elementary/ Secondary Schools II (CE)</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 30

1. Electronic documentation of 200 hours of diverse and approved field experiences required prior to student teaching.

Certification Exit Assessment

B-minus or better in student teaching; satisfactory portfolio; passing score on Praxis, all certification and degree coursework competed with a 3.0 cumulative GPA; 2.5 GPA in the content area.
Degree Exit Assessment
B-minus or better in each student teaching placement, certification exit requirements plus a satisfactorily updated portfolio, and a 3.0 GPA overall.

Degree Candidacy
If not enrolled during the semester in which you are graduating, you must register for degree candidacy as outlined in the graduate catalog (see General Policies, Procedures and Requirements (p. 802)).

Praxis Disclaimer
"Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or ets.org/praxis/ky (http://www.ets.org/praxis/ky) for current requirements."

Music Education (MME)

Master of Music Education in Music Education (MUEDMME)
Unit: School of Music (http://louisville.edu/music/) (GU)
Program Website (https://louisville.edu/music/academics/areas-of-study/music-education)

Program Information
The Master of Music Education (MME) program allows an applied music minor in an instrument, voice, or conducting. Each degree program has specific prerequisites, entrance requirements, and programmatic expectations that are described in the relevant section of the catalog.

General Information Regarding Academic Policies
1. Detailed curricular and program offerings, including specific requirements and provisions for degree programs, are published in the university catalog. Students will be provided with copies of the "Handbook for Graduate Studies in Music", the "Guidelines for Preparation for the Graduate Music History Entrance Examination," and "Guidelines for Preparation for the Graduate Music Theory Entrance Examination." These documents are also available on the School of Music website: louisville.edu/music/.

2. Students will be required to address any deficiencies revealed by entrance examinations in courses taken within the first two semesters of study. Credit toward the degree is not granted for review coursework.

3. All students are required to complete Bibliography and Research Methods (MUS 607) by the end of the second semester of study (part-time students by the completion of 15 hours of graduate study). Upon satisfactory completion of requirements stated in Handbook sections B.2 and B.3, students will be considered in good standing.

4. Students will complete a project appropriate to the field of study as defined by the faculty of their program. The completion of this project (public recital, thesis, professional paper) normally takes place in the last semester of graduate study. Preparation and presentation of a recital must follow the guidelines in the "Handbook for Graduate Studies in Music" and the preparation of a thesis must follow the "Guidelines for the Preparation and Processing of Theses" issued by the School of Interdisciplinary and Graduate Studies. The preparation of a thesis in music composition must also follow the "School of Music Thesis Formatting Guidelines for MM in Composition" available at louisville.edu/music/academics/areas-of-study/music-composition/documents/ULCompThesisGuidelines.pdf.

5. In order to graduate, a student must be in good standing with a minimum cumulative grade point average of 3.0. No more than six (6) hours with any C or C+ grade will be accepted toward a degree, and no grade below a B-minus will be accepted for a course in the student’s major subject area. Hours earned beyond the minimum in any curricular areas apply only to that area and cannot be assigned to another area in order to satisfy required credit. At least one-half of the total hours in graduate courses must be at the 600 level. Any exceptions to the program of study must be approved by the Graduate Studies Committee. A student whose cumulative GPA falls below 3.0, or who fails to satisfy the published performance criteria, will be placed on probation. Students are ordinarily not permitted to continue on probation for more than one semester.

6. When all coursework and projects have been satisfactorily completed, the student becomes a candidate for the degree and is approved to take the graduate oral examination. A candidate who fails the oral examination at the end of one semester may not be given a second one before the end of the following semester. A candidate who fails the second oral examination will not be granted the degree of MM or MME from the University of Louisville.

7. Upon request, a maximum of six (6) credit hours of earned graduate credit with a minimum grade of B may be transferred from accredited institutions that offer advanced degrees. Credit for applied music will not be transferred, but advanced standing may be awarded at a jury. Ensemble credits appropriate to the student’s degree program may be considered for transfer, but not to exceed one (1) credit hour per semester. Music history and music theory credits will be evaluated for transfer by the Director of Graduate Studies and the respective faculty. Transfer of more than six (6) credit hours may be requested provided that they are not earned by extension, or as thesis or practicum hours, and that the residency requirement of 24 semester hours is maintained by the addition of University of Louisville credits to the total program. Transfer of graduate hours within the University of Louisville toward a graduate degree in music may be requested provided that the minimum residence requirement of 24 credit hours is maintained.

8. Students receiving a graduate assistantship (teaching, research, or service) will be provided with adequate training and will be required to adhere to university policies. Performance of duties in research and service by graduate assistants will be periodically evaluated. Students with teaching assistantships will be evaluated each semester.

9. Part-time students (with the exception of those in the MME degree program) must participate in one ensemble for every 18 hours of completed coursework. If part-time study precludes completing ensemble degree requirements, other coursework may be substituted.

Admission Requirements
1. Applications for admission to a graduate program require the following:
   a. A completed application;
   b. An application fee;
   c. Official transcripts for all previous post-secondary course work (all transcripts not in English must be certified as authentic and translated verbatim into English);
   d. At least two letters of recommendation;
   e. Scores from the General Test Section of the Graduate Record Examination (GRE) that must be submitted prior to the beginning of study.
2. Applications to specific degree programs require evidence of preparation for advanced study as follows:
   a. In performance, an acceptable audition;
   b. In academic specializations (music composition, music history, music theory), a portfolio of work appropriate to the field of study;
   c. In music education, evidence of classroom teaching experience.

3. Applicants whose primary language is not English must show English language proficiency in one of the following ways:
   a. A minimum TOEFL examination score of 550 on the paper-based test, 213 on the computer-based test, or 79-80 on the internet-based test;
   b. Successful completion of the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville;
   c. Documentation of the award of a degree from a recognized English language institution.

4. Applicants must possess a baccalaureate degree from an accredited institution in the area to be pursued in advanced studies, or they must present evidence of equivalent preparation.

5. Applicants must have a minimum cumulative undergraduate grade point average of 2.75 on a 4-point scale.

Applicants who meet the requirements listed in items 1-5 will be considered for conditional admission for graduate study at the School of Music. For additional entrance requirements specific to the degree of interest, see below.

Entrance examinations in music history, theory and, if appropriate, jazz, will be administered before the first term of study. The School of Music provides guidelines to assist in preparing for the entrance examinations.

Any exception to the above expectations will be evaluated individually and will require a statement indicating criteria to be met in a specified time frame with provisions for monitoring progress and performance. Justification must be provided in writing and must be accepted by the faculty of the student’s proposed program, the Director of Graduate Studies, and the Dean of the School of Music.

Students who fail to meet performance standards or who do not meet other requirements as outlined in the letter of admission, program of study, or the catalog of the University of Louisville are subject to dismissal from their programs.

Prerequisites

1. Bachelor of Music degree or equivalent
2. Classroom teaching experience (exclusive of practice teaching and prior to, or concurrent with, graduate study)
3. Demonstration, by examination, of skills and capacities in the following fields:
   a. Written, aural, and keyboard harmony
   b. Melodic, harmonic, and rhythmic dictation
   c. Elementary counterpoint
   d. History and literature of music, and analytic understanding of musical forms and genres

Program Requirements

Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 500</td>
<td>Music History Review</td>
<td>0</td>
</tr>
<tr>
<td>MUS 400</td>
<td>Theory Review</td>
<td>0</td>
</tr>
<tr>
<td>MUS 600</td>
<td>Graduate Oral Exam Preparation</td>
<td>0</td>
</tr>
<tr>
<td>MUS 607</td>
<td>Bibliography and Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>MUED 628</td>
<td>Qualitative Research Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUED 629</td>
<td>Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 630</td>
<td>Quantitative Research Methods &amp; Materials in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 639</td>
<td>Learning Theories in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>Music Education and Related Courses</td>
<td>5-6</td>
<td></td>
</tr>
<tr>
<td>Applied Music (chosen from major or minor performance fields, including Conducting)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Music History (500 or 600 level)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Music Theory (500 or 600 level)</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>Thesis</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 30

Other Requirements

It is recommended that full-time MME students enroll in ensembles during their degree program.

All students must pass an oral examination after all course work is completed.

1. These courses may be satisfied by passing the entrance examinations in these areas.
2. Students are required to prepare either a thesis (4 semester hours of credit) or a professional paper (without credit). In the latter case, 4 hours of coursework will be determined by the student and graduate advisor in order to achieve the 30-hour minimum requirement.

Music History and Literature (MM)

Master of Music in Music History and Literature (MUSIMM MUH)

Unit: School of Music (http://louisville.edu/music) (GU)
Program Webpage (https://louisville.edu/music/academics/areas-of-study/music-history)

Program Information

The School of Music offers training toward two specific graduate degrees in music: Master of Music requiring a minimum of 36 credit hours of graduate credit, and Master of Music Education requiring 30 hours. All programs require a minimum of 24 credit hours of residence at the University of Louisville. Major subjects in the Master of Music curriculum are music performance with concentrations in choral, wind, or orchestral conducting; instrumental, piano, or vocal performance; music theory; jazz performance or jazz composition and arranging; piano, string, or wind band pedagogy; music history; music theory; and music composition. The Master of Music Education program allows an applied music minor in an instrument, voice, or conducting. Each degree program has specific prerequisites, entrance requirements, and programmatic expectations that are described in the relevant section of the catalog.

The MM in Music History program, a two-year course of study, is particularly suitable for those who wish to explore further both the
content and the methodologies by which the history of music may be critiqued and investigated. Applicants must have an undergraduate degree in music or its equivalent. Graduate students in music history undertake a series of seminars and complete a thesis under faculty supervision, as well as satisfy a foreign language requirement and a final oral examination. Past graduates in music history from the University of Louisville have made careers as musicologists, music librarians, arts administrators, and music critics.

**General Information Regarding Academic Policies**

1. Detailed curricular and program offerings, including specific requirements and provisions for degree programs, are published in the university catalog. Students will be provided with copies of the "Handbook for Graduate Studies in Music", the "Guidelines for Preparation for the Graduate Music History Entrance Examination," and "Guidelines for Preparation for the Graduate Music Theory Entrance Examination." These documents are also available on the School of Music website: louisville.edu/music/.

2. Students will be required to address any deficiencies revealed by entrance examinations in courses taken within the first two semesters of study. Credit toward the degree is not granted for review coursework.

3. All students are required to complete MUS 607 Bibliography and Research Methods by the end of the second semester of study (part-time students by the completion of 15 hours of graduate study). Upon satisfactory completion of requirements stated in Handbook sections B.2 and B.3, students will be considered in good standing.

4. Students will complete a project appropriate to the field of study as defined by the faculty of their program. The completion of this project (public recital, thesis, professional paper) normally takes place in the last semester of graduate study. Preparation and presentation of a recital must follow the guidelines in the "Handbook for Graduate Studies in Music" and the preparation of a thesis must follow the "Guidelines for the Preparation and Processing of Theses" issued by the School of Interdisciplinary and Graduate Studies. The preparation of a thesis in music composition must also follow the "School of Music Thesis Formatting Guidelines for MM in Composition" available at louisville.edu/musicacademics/areas-of-study/music-composition/documents/ULCCompThesisGuidelines.pdf.

5. In order to graduate, a student must be in good standing with a minimum cumulative grade point average of 3.0. No more than six (6) hours with any C or C+ grade will be accepted toward a degree, and no grade below a B-minus will be accepted for a course in the student’s major subject area. Hours earned beyond the minimum in any curricular areas apply only to that area and cannot be assigned to another area in order to satisfy required credit. At least one-half of the total hours in graduate courses must be at the 600 level. Any exceptions to the program of study must be approved by the Graduate Studies Committee. A student whose cumulative GPA falls below 3.0, or who fails to satisfy the published performance criteria, will be placed on probation. Students are ordinarily not permitted to continue on probation for more than one semester.

6. When all coursework and projects have been satisfactorily completed, the student becomes a candidate for the degree and is approved to take the graduate oral examination. A candidate who fails the oral examination at the end of one semester may not be given a second one before the end of the following semester. A candidate who fails the second oral examination will not be granted the degree of MM or MME from the University of Louisville.

7. Upon request, a maximum of six (6) credit hours of earned graduate credit with a minimum grade of B may be transferred from accredited institutions that offer advanced degrees. Credit for applied music will not be transferred, but advanced standing may be awarded at a jury. Ensemble credits appropriate to the student’s degree program may be considered for transfer, but not to exceed one (1) credit hour per semester. Music history and music theory credits will be evaluated for transfer by the Director of Graduate Studies and the respective faculty. Transfer of more than six (6) credit hours may be requested provided that they are not earned by extension, or as thesis or practicum hours, and that the residency requirement of 24 semester hours is maintained by the addition of University of Louisville credits to the total program. Transfer of graduate hours within the University of Louisville toward a graduate degree in music may be requested provided that the minimum residence requirement of 24 credit hours is maintained.

8. Students receiving a graduate assistantship (teaching, research, or service) will be provided with adequate training and will be required to adhere to university policies. Performance of duties in research and service by graduate assistants will be periodically evaluated. Students with teaching assistantships will be evaluated each semester.

9. Part-time students (with the exception of those in the MME degree program) must participate in one ensemble for every 18 hours of completed coursework. If part-time study precludes completing ensemble degree requirements, other coursework may be substituted.

**Admission Requirements**

1. Applications for admission to a graduate program require the following:
   a. Completed application and application fee
   b. Official transcripts for all previous post-secondary course work (all transcripts not in English must be certified as authentic and translated verbatim into English)
   c. At least two letters of recommendation
   d. Scores from the General Test Section of the Graduate Record Examination (GRE) that must be submitted prior to the beginning of study.

2. Applications to specific degree programs require evidence of preparation for advanced study as follows:
   a. In performance, an acceptable audition
   b. In academic specializations (music composition, music history, music theory), a portfolio of work appropriate to the field of study
   c. In music education, evidence of classroom teaching experience

3. Applicants whose primary language is not English must show English language proficiency in one of the following ways:
   a. Minimum TOEFL examination score of 550 on the paper-based test, 213 on the computer-based test, or 79-80 on the internet-based test
   b. Successful completion of the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville
   c. Documentation of the award of a degree from a recognized English language institution.

4. Applicants must possess a baccalaureate degree from an accredited institution in the area to be pursued in advanced studies, or they must present evidence of equivalent preparation.

5. Applicants must have a minimum cumulative undergraduate grade point average of 2.75 on a 4-point scale.
Applicants who meet the requirements listed in items 1-5 will be considered for conditional admission for graduate study at the School of Music. For additional entrance requirements specific to the degree of interest, consult the section relevant to the degree program below.

Entrance examinations in music history, theory, and, if appropriate, jazz, will be administered before the first term of study. The School of Music provides guidelines to assist in preparing for the entrance examinations.

Any exception to the above expectations will be evaluated individually and will require a statement indicating criteria to be met in a specified time frame with provisions for monitoring progress and performance. Justification must be provided in writing and must be accepted by the faculty of the student’s proposed program, the Director of Graduate Studies, and the Dean of the School of Music. Students who fail to meet performance standards or who do not meet other requirements as outlined in the letter of admission, program of study, or the catalog of the University of Louisville are subject to dismissal from their programs.

Prerequisites

1. Bachelor of Music degree or equivalent.
2. A demonstration, by examination, of skills and capacities in the following fields:
   a. Written, aural, and keyboard harmony;
   b. Melodic, harmonic, and rhythmic dictation;
   c. Elementary counterpoint; and
   d. History and literature of music, and analytic understanding of musical forms and genres.
3. Evidence of preparation for advanced work in the area, as follows:
   a. Applicants for the track in music history must submit a paper to the music history faculty demonstrating ability to write efficiently and to do elementary research.
   b. In addition, applicants must complete the entrance examination in music history with an average score of no less than seventy (70) for admission to the music history curriculum. Before admission to candidacy, students in music history are required to take GERM 121, GERM 122, and GERM 123 and pass each semester with a minimum grade of B. Students with prior knowledge of German can satisfy any or every part of this requirement by passing the proficiency exam(s) administered by the Department of German.
   c. GRE scores

Program Requirements

Coursework

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>MUS 500</td>
<td>Music History Review</td>
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<tr>
<td>MUS 400</td>
<td>Theory Review</td>
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<tr>
<td>MUS 600</td>
<td>Graduate Oral Exam Preparation</td>
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<td>MUS 607</td>
<td>Bibliography and Research Methods</td>
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<tr>
<td>Music History Seminar (600 level)</td>
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<td>Music Theory</td>
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<tr>
<td>Additional Music Theory or Music History Seminar (500 or 600 level)</td>
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<td>Select one of the following Analysis courses:</td>
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<td>MUS 647</td>
<td>Advanced Chromatic Harmony and Analysis</td>
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<td>MUS 648</td>
<td>Advanced Post-Tonal Theory and Analysis</td>
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<tr>
<td>MUS 651</td>
<td>Schenkerian Analysis</td>
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<td>MUS 653</td>
<td>Advanced Analysis</td>
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<td>Ensemble (3 semesters of major ensemble) 2</td>
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<tr>
<td>Music History and Literature Concentration</td>
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<td>Minimum Total Hours</td>
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</table>

Other Requirements

All students must pass an oral examination after all course work is completed.

1. These courses may be satisfied by passing the entrance examinations in these areas.
2. The recommended ensembles for the Music History Track include Early Music Ensemble and New Music Ensemble.

Music Performance (MM)

Master of Music in Music Performance

Unit: School of Music (https://louisville.edu/music) (GU)
Program Webpage (https://louisville.edu/music/academics/areas-of-study/instrumental-vocal-performance)

Program Information

The School of Music offers training toward two specific graduate degrees in music: Master of Music (MM) requiring a minimum of 36 credit hours of graduate credit, and Master of Music Education (MME) requiring 30 credit hours. All programs require a minimum of 24 credit hours of residence at the University of Louisville. Major subjects in the Master of Music curriculum are music performance with concentrations in choral, wind, or orchestral conducting; instrumental, piano, or vocal performance; jazz performance or jazz composition and arranging; piano, string, or wind band pedagogy; music history; music theory; and music composition. The Master of Music Education program allows an applied music minor in an instrument, voice, or conducting. Each degree program has specific prerequisites, entrance requirements, and programmatic expectations that are described in the relevant section of the catalog.

The Department of Performance Studies is dedicated to the development of the musical and technical abilities of the music student through classical performance training on the individual performance instruments. The department offers training in voice and in the brass, wind, percussion, string and keyboard instruments, as well as conducting. The lessons are presented in a one-on-one, nurturing environment. The faculty members are all active performers. A student’s mastery of a major performance instrument is an extremely important component of advanced musical training, and opportunities for performance experience are provided through various venues. The faculty also coach chamber music and teach courses regarding the literature for and pedagogy of their various instruments.

General Information Regarding Academic Policies

1. Detailed curricular and program offerings, including specific requirements and provisions for degree programs, are published in the university catalog. Students will be provided with copies of the "Handbook for Graduate Studies in Music," the "Guidelines for Preparation for the Graduate Music History Entrance Examination," and "Guidelines for Preparation for the Graduate Music Theory..."
2. Students will be required to address any deficiencies revealed by entrance examinations in courses taken within the first two semesters of study. Credit toward the degree is not granted for review coursework.

3. All students are required to complete Bibliography and Research Methods (MUS 607) by the end of the second semester of study (part-time students by the completion of 15 hours of graduate study). Upon satisfactory completion of requirements stated in Handbook sections B.2 and B.3, students will be considered in good standing.

4. Students will complete a project appropriate to the field of study as defined by the faculty of their program. The completion of this project (public recital, thesis, professional paper) normally takes place in the last semester of graduate study. Preparation and presentation of a recital must follow the guidelines in the "Handbook for Graduate Studies in Music" and the preparation of a thesis must follow the "Guidelines for the Preparation and Processing of Theses" issued by the School of Interdisciplinary and Graduate Studies. The preparation of a thesis in music composition must also follow the "School of Music Thesis Formatting Guidelines for MM in Composition" available at louisville.edu/music/academics/areas-of-study/music-composition/documents/ULCompThesisGuidelines.pdf.

5. In order to graduate, a student must be in good standing with a minimum cumulative grade point average of 3.0. No more than six (6) hours with any C or C+ grade will be accepted toward a degree, and no grade below a B-minus will be accepted for a course in the student’s major subject area. Hours earned beyond the minimum in any curricular areas apply only to that area and cannot be assigned to another area in order to satisfy required credit. At least one-half of the total hours in graduate courses must be at the 600 level. Any exceptions to the program of study must be approved by the Graduate Studies Committee. A student whose cumulative GPA falls below 3.0, or who fails to satisfy the published performance criteria, will be placed on probation. Students are ordinarily not permitted to continue on probation for more than one semester.

6. When all coursework and projects have been satisfactorily completed, the student becomes a candidate for the degree and is approved to take the graduate oral examination. A candidate who fails the oral examination at the end of one semester may not be given a second one before the end of the following semester. A candidate who fails the second oral examination will not be granted the degree of MM or MME from the University of Louisville.

7. Upon request, a maximum of six (6) credit hours of earned graduate credit with a minimum grade of B may be transferred from accredited institutions that offer advanced degrees. Credit for applied music will not be transferred, but advanced standing may be awarded at a jury. Ensemble credits appropriate to the student's degree program may be considered for transfer, but not to exceed one (1) credit hour per semester. Music history and music theory credits will be evaluated for transfer by the Director of Graduate Studies and the respective faculty. Transfer of more than six (6) credit hours may be requested provided that they are not earned by extension, or as thesis or practicum hours, and that the residency requirement of 24 semester hours is maintained by the addition of University of Louisville credits to the total program. Transfer of graduate hours within the University of Louisville toward a graduate degree in music may be requested provided that the minimum residence requirement of 24 credit hours is maintained.

8. Students receiving a graduate assistantship (teaching, research, or service) will be provided with adequate training and will be required to adhere to university policies. Performance of duties in research and service by graduate assistants will be periodically evaluated. Students with teaching assistantships will be evaluated each semester.

9. Part-time students (with the exception of those in the MME degree program) must participate in one ensemble for every 18 hours of completed coursework. If part-time study precludes completing ensemble degree requirements, other coursework may be substituted.

**Admission Requirements**

1. Applications for admission to a graduate program require the following:
   a. A completed application;
   b. An application fee;
   c. Official transcripts for all previous post-secondary course work (all transcripts not in English must be certified as authentic and translated verbatim into English);
   d. At least two letters of recommendation;
   e. Scores from the General Test Section of the Graduate Record Examination (GRE) that must be submitted prior to the beginning of study.

2. Applications to specific degree programs require evidence of preparation for advanced study as follows:
   a. In performance, an acceptable audition;
   b. In academic specializations (music composition, music history, music theory), a portfolio of work appropriate to the field of study;
   c. In music education, evidence of classroom teaching experience.

3. Applicants whose primary language is not English must show English language proficiency in one of the following ways:
   a. A minimum TOEFL examination score of 550 on the paper-based test, 213 on the computer-based test, or 79-80 on the internet-based test;
   b. Successful completion of the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville;
   c. Documentation of the award of a degree from a recognized English language institution.

4. Applicants must possess a baccalaureate degree from an accredited institution in the area to be pursued in advanced studies, or they must present evidence of equivalent preparation.

5. Applicants must have a minimum cumulative undergraduate grade point average of 2.75 on a 4-point scale.

Applicants who meet the requirements listed in items 1-5 will be considered for conditional admission for graduate study at the School of Music. For additional entrance requirements specific to the degree of interest, see below.

Entrance examinations in music history, theory and, if appropriate, jazz, will be administered before the first term of study. The School of Music provides guidelines to assist in preparing for the entrance examinations.

Any exception to the above expectations will be evaluated individually and will require a statement indicating criteria to be met in a specified time frame with provisions for monitoring progress and performance. Justification must be provided in writing and must be accepted by the
Concentration in Choral Conducting

Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 611</td>
<td>Applied Music 1</td>
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<td>MUS 530</td>
<td>Choral Literature I</td>
<td>2</td>
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<tr>
<td>MUS 531</td>
<td>Choral Literature II</td>
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<td>MUS 539</td>
<td>Instrumental Conducting and Score Reading</td>
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Minimum Total Hours 18

Concentration in Orchestral Conducting

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<tr>
<td>MUS 659</td>
<td>Seminar in Conducting I (Instrumental)</td>
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<td>MUS 660</td>
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<td>Seminar in Conducting I (Choral) 3</td>
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<td>MUS 660</td>
<td>Seminar in Conducting II (Choral) 3</td>
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<td>MUS 686</td>
<td>Orchestral Literature I</td>
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<td>MUS 687</td>
<td>Orchestral Literature II</td>
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<tr>
<td>Ensemble (two semesters of major ensemble)</td>
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Minimum Total Hours 18

Concentration in String Pedagogy

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<tr>
<td>MUS 538</td>
<td>Studies in Pedagogy (MUS 538-06 String Pedagogy)</td>
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<td>Studies in Pedagogy (Instrument Specific)</td>
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<td>MUS 678</td>
<td>Advanced Pedagogy (Instrument Specific)</td>
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<td>MUS 677</td>
<td>Business Aspects of String Studio Teaching</td>
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<td>MUS 563</td>
<td>Literature (MUS 563-02 String Literature)</td>
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<td>Literature (Instrument Specific)</td>
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<td>Major or Minor Ensemble 5</td>
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Minimum Total Hours 18

Concentration in Wind Band Pedagogy

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<td>MUS 660</td>
<td>Seminar in Conducting II (Instrumental)</td>
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<tr>
<td>MUS 559</td>
<td>Instrumental Conducting and Score Reading</td>
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<tr>
<td>MUS 561</td>
<td>Literature (Band Literature)</td>
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<tr>
<td>MUS 663</td>
<td>Graduate Band Pedagogy and Educational Wind Band Literature</td>
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Select one of the following sequences:

Sequence One:

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<tr>
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<tbody>
<tr>
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<td>&amp; MUS 534</td>
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<td>&amp; MUS 522</td>
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Minimum Total Hours 18

Program Requirements

Coursework

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<td>MUS 500</td>
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<td>MUS 400</td>
<td>Theory Review 1</td>
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<td>MUS 600</td>
<td>Graduate Oral Exam Preparation</td>
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<td>MUS 607</td>
<td>Bibliography and Research Methods</td>
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<td>Music Theory (500 or 600 level) 2</td>
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<td>Applied Study (600 level) 3</td>
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<td>MUS 697</td>
<td>Graduate Recital 4</td>
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Minimum Total Hours 36

Other Requirements

All students must pass an oral examination after all course work is completed.

1 These courses may be satisfied by passing the entrance examinations in these areas.

2 For students in the Concentration in Jazz, Jazz Theory (MUS 539-02) is recommended. For students in the Concentration in Jazz Composition and Arranging, MUS 654 is required and Jazz Theory (MUS 539-02) is recommended.

3 The applied course numbers for the degree concentrations are as follows: Choral Conducting: MUS 601, MUS 602, MUS 659, MUS 660. (Students may substitute additional semesters of MUS 659 and MUS 660 for MUS 601 and MUS 602 at the discretion of the Director of Choral Activities). Orchestral/Wind Conducting/Wind Band Pedagogy/Piano Pedagogy/String Pedagogy: MUS 601, MUS 602, MUS 611, MUS 612. Jazz Performance: MUS 605, MUS 606, MUS 615, MUS 616. Students enrolled for applied jazz composition and arranging may not also get credit for MUS 656 or MUS 657. Instrumental/Organ/Piano/Vocal Performance: MUS 603, MUS 604.

4 Taken concurrently with final semester of applied study. Performance and pedagogy degree recitals are expected to show a performer’s musical maturity and versatility. A degree recital program must be approved by the student’s applied instructor. Minimum recital lengths will be determined by the appropriate area faculty and indicated on all applied syllabi.
### Concentration in Wind Conducting

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUS 659</td>
<td>Seminar in Conducting I (either Instrumental or Choral as per advising)</td>
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<tr>
<td>MUS 660</td>
<td>Seminar in Conducting II (either Instrumental or Choral as per advising)</td>
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<tr>
<td>MUS 559</td>
<td>Instrumental Conducting and Score Reading</td>
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<tr>
<td>MUS 661</td>
<td>Literature (Band Literature)</td>
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### Concentration in Organ Performance

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<tbody>
<tr>
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<tr>
<td>MUS 614</td>
<td>Applied Music</td>
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<td>Ensemble</td>
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<td></td>
<td>Major Subject and Music Electives 12</td>
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### Concentration in Instrumental Music

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<td>Ensemble</td>
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<td>Music Electives 9</td>
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### Concentration in Piano Pedagogy

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<th>Code</th>
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<tbody>
<tr>
<td>MUS 671</td>
<td>Advanced Piano Pedagogy I</td>
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<td>MUS 672</td>
<td>Advanced Piano Pedagogy II</td>
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<tr>
<td>MUS 673</td>
<td>Advanced Piano Pedagogy III</td>
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<tr>
<td>MUS 674</td>
<td>Advanced Piano Pedagogy IV</td>
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<tr>
<td>MUS 561</td>
<td>Literature (Piano Literature I)</td>
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<tr>
<td>MUS 562</td>
<td>Literature (Piano Literature II)</td>
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<td>Ensemble 13</td>
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<td>Music Electives 14</td>
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### Concentration in Jazz Performance

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<tr>
<td>MUS 539</td>
<td>Studies in Jazz (MUS 539-01 Jazz Style and Analysis)</td>
<td>2</td>
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<tr>
<td>MUS 539</td>
<td>Studies in Jazz (MUS 539-03 Standard Jazz Repertoire)</td>
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<tr>
<td>MUS 655</td>
<td>Advanced Jazz Improvisation</td>
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<td></td>
<td>Jazz Combo (one per semester)</td>
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<td>Jazz Ensemble or Jazz Repertory Ensemble (one per semester)</td>
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<td>Music Electives 11</td>
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### Concentration in Jazz Composition and Arranging

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<td>Studies in Jazz (MUS 539-01 Jazz Style and Analysis)</td>
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<td>MUS 539</td>
<td>Studies in Jazz (MUS 539-03 Standard Jazz Repertoire)</td>
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<td>MUS 655</td>
<td>Advanced Jazz Improvisation</td>
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<td>Jazz Combo (one per semester)</td>
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<td>Jazz Ensemble or Jazz Repertory Ensemble (one per sem)</td>
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<td>Music Electives 11</td>
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### Concentration in Piano Performance

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<th>Title</th>
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<td>MUS 614</td>
<td>Applied Music</td>
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<td>MUS 561</td>
<td>Literature (Piano Literature I)</td>
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<td>MUS 562</td>
<td>Literature (Piano Literature II)</td>
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<td>Piano Pedagogy (500 or 600 level)</td>
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<td>Ensemble 13</td>
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<td></td>
<td>Music Electives 14</td>
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### Concentration in Vocal Performance

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<td>MUS 561</td>
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<td>MUS 640</td>
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### Concentration in Jazz Performance

Other Requirements
Students are expected to present a public recital that comprises no less than sixty (60) minutes of music and follows the guidelines governing public recitals.

### Concentration in Jazz Composition and Arranging

Other Requirements
Students are expected to present a public recital that comprises no less than sixty (60) minutes of music and follows the guidelines governing public recitals.

### Concentration in Piano Pedagogy

Other Requirements
Students are required to present a sixty-minute lecture-demonstration recital that focuses on pedagogical aspects of selected works, includes a minimum of thirty minutes of memorized solo repertoire, and follows the guidelines governing public recitals.

### Concentration in Piano Performance

Other Requirements
Students are expected to present a public recital that comprises no less than sixty (60) minutes of music and follows the guidelines governing public recitals.

### Concentration in Vocal Performance

Other Requirements
Students are expected to present a public recital that comprises no less than sixty (60) minutes of music and follows the guidelines governing public recitals.
Other Requirements

Students are expected to present a public recital that comprises no less than sixty (60) minutes of music and follows the guidelines governing public recitals.

1. Must be taken in the semester of the graduate degree recital.
2. May include such courses as pedagogy, literature, the student’s principal applied instrument, instrumental conducting, or a maximum of two additional ensemble credits.
3. One two-credit-hour course required of all orchestral conducting majors, the second two-credit-hour course optional depending on the individual needs of the student in consultation with their advisor. If the student only needs two credits of choral, they will be required to have two additional music electives.
4. To be chosen from courses in music theory, literature, the student’s principal applied instrument, or a maximum of two additional ensemble credits.
5. In comparing degree programs, please note that among universities, many times ensembles are required, but without credit. Our required ensembles are included in the number of required degree hours. New Music Ensemble is acceptable for the concentration in String Pedagogy.
6. Up to two additional ensemble credits are acceptable.
7. To be chosen from pedagogy, literature, research methods, learning themes, the student’s principal applied instrument, a maximum of two semesters of functional applied study, or a maximum of two additional ensemble credits if performing on a secondary instrument.
8. To be chosen from pedagogy, literature, the student’s principal applied instrument, a maximum of two semesters of functional applied study, or a maximum of two additional ensemble credits.
9. Students are encouraged to choose courses in literature or pedagogy; up to two additional ensemble credits are acceptable.
10. A student may substitute two additional Jazz Combo courses for one of the Jazz Ensemble courses.
11. Applied Jazz or Ensemble will not meet this requirement; applied study in a secondary area is acceptable.
12. Must include Organ Literature and Church Music Literature; additional Applied Organ or Ensemble will not meet this requirement. Applied study in a secondary area is acceptable.
13. At least three semesters of ensemble to be chosen from Piano Ensemble or New Music Ensemble.
14. Additional Applied Piano or Ensemble will not meet this requirement; applied study in a secondary area is acceptable.
15. Suggested ensembles include Opera Theatre and New Music Ensemble.
16. Additional Applied Voice or Ensemble will not meet this requirement; applied study in a secondary area is acceptable.

Music Theory (MM)

Master of Music in Music Theory (MUSTMM)

Unit: School of Music (http://louisville.edu/music) (GU)
Applications for admission to a graduate program require the following:

a. A completed application;
b. An application fee;
c. Official transcripts for all previous post-secondary course work (all transcripts not in English must be certified as authentic and translated verbatim into English);
d. At least two letters of recommendation;
e. Scores from the General Test Section of the Graduate Record Examination (GRE) that must be submitted prior to the beginning of study.

Applications to specific degree programs require evidence of preparation for advanced study as follows:

a. In performance, an acceptable audition;
b. In academic specializations (music composition, music history, music theory), a portfolio of work appropriate to the field of study;
c. In music education, evidence of classroom teaching experience.

Applicants whose primary language is not English must show English language proficiency in one of the following ways:

a. A minimum TOEFL examination score of 550 on the paper-based test, 213 on the computer-based test, or 79-80 on the internet-based test;
b. Successful completion of the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville;
c. Documentation of the award of a degree from a recognized English language institution.

Applicants must possess a baccalaureate degree from an accredited institution in the area to be pursued in advanced studies, or they must present evidence of equivalent preparation.

Applicants must have a minimum cumulative undergraduate grade point average of 2.75 on a 4-point scale.

Entrance examinations in music history, theory and, if appropriate, jazz, will be administered before the first term of study. The School of Music provides guidelines to assist in preparing for the entrance examinations.

Any exception to the above expectations will be evaluated individually and will require a statement indicating criteria to be met in a specified time frame with provisions for monitoring progress and performance. Justification must be provided in writing and must be accepted by the faculty of the student’s proposed program, the Director of Graduate Studies, and the Dean of the School of Music.

Students who fail to meet performance standards or who do not meet other requirements as outlined in the letter of admission, program of study, or the catalog of the University of Louisville are subject to dismissal from their programs.

### Program Requirements

**Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 400</td>
<td>Theory Review ¹</td>
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</tr>
<tr>
<td>MUS 500</td>
<td>Music History Review</td>
<td>0</td>
</tr>
<tr>
<td>MUS 509</td>
<td>Major Ensembles (Three Semesters)</td>
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</tr>
<tr>
<td>MUS 600</td>
<td>Graduate Oral Exam Preparation</td>
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<tr>
<td>MUS 607</td>
<td>Bibliography and Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Music History Seminar (600 level) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Music Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Additional Music Theory or Music History Seminar (500 or 600 level)</td>
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<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
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<tr>
<td>MUS 647</td>
<td>Advanced Chromatic Harmony and Analysis</td>
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<tr>
<td>MUS 648</td>
<td>Advanced Post-Tonal Theory and Analysis</td>
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<td>MUS 653</td>
<td>Advanced Analysis</td>
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</tr>
<tr>
<td>Thesis</td>
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</tr>
</tbody>
</table>

**Concentration Requirements (see tab)**  14

**Minimum Total Hours**  36

### Other Requirements

All students must pass an oral examination after all course work is completed.

¹ These courses may be satisfied by passing the entrance examinations in these areas.
Nursing will be charged instructional and clinical fees. These fees cover all graduate students enrolled in clinical programs in the School of Clinical Laboratory Fee. A student who is unsafe in a clinical area or research setting is subject to removal from clinical admission to the program. Students who receive more than one C+ or below in the required program curriculum will be dismissed. Repeating Nursing Courses are subject to cancellation due to insufficient enrollment. Preceptorship/clinical experiences are scheduled on any day of the week based on availability of clinical sites and preceptors. Limited evening and weekend preceptorship experiences may be available. Preceptorship experiences throughout the state are also possible but not guaranteed. The office of the Associate Dean for Graduate Programs oversees student placement with preceptors, in collaboration with the Clinical Placement Coordinator and course faculty.

Late Complete Withdrawal after the Deadline
Upon proper documentation of extreme circumstances, decision for approval of late complete withdrawals may be made by the Associate Dean for Graduate Programs. Late complete withdrawals are those requested after the deadline has passed and before the instructor has assigned a grade.

Student Health Services Requirements
Each student must comply with the current student health policy of the Health Sciences Center. All costs associated with compliance are the responsibility of the student. Because of contractual agreements with agencies and the changing needs of society, this policy is updated periodically. The current health policies are listed below. It is the responsibility of the student to maintain his/her health in order to ensure safety for other students and clients. If faculty or the agency deems that any student creates a health risk, the student may be excluded from the clinical experience and/or the program.

Clinical Requirements
Detailed information is provided at student orientations and is provided in the School of Nursing Student Handbook.

Repeating Nursing Courses
MSN students who receive a grade of C+ or below in a required program course at UofL must repeat the course. Students who receive more than one C+ or below in the required MSN curriculum will be dismissed from the program. Students are allowed to repeat a course on a space-available basis.

Probation and Dismissal
If the cumulative grade point average falls below 3.0, the student will be placed on academic probation for the next regular semester. If the cumulative grade point average is not raised to a minimum of 3.0 by the end of the probation semester, the student will be dismissed from the program. The dismissal will be reflected on the student's transcript. If a student wishes to continue at the university, he/she must apply and be accepted to another unit in order to continue to enroll in classes.

Program-Specific Academic Policies
Academic Progress in the Graduate Program
Satisfactory academic progress in a program involves maintaining the academic and professional standards expected in a particular discipline or program and may include a demonstration of the ability to function as a professional practitioner. Failure to maintain these standards or demonstrate such abilities may result in the termination of the student's admission to the program.

Removal From Clinical
A student who is unsafe in a clinical area or research setting is subject to academic action including dismissal from the program.

Clinical Laboratory Fee
All graduate students enrolled in clinical programs in the School of Nursing will be charged instructional and clinical fees. These fees cover costs associated with clinical laboratory instruction, including clinical laboratory supplies, clinical equipment, support of simulation equipment, preceptor placement coordination and clinical visitations.

Course Offerings
Course offerings are subject to cancellation due to insufficient enrollment. Preceptorship/clinical experiences are scheduled on any day of the week based on availability of clinical sites and preceptors. Limited evening and weekend preceptorship experiences may be available. Preceptorship experiences throughout the state are also possible but not guaranteed. The office of the Associate Dean for Graduate Programs oversees student placement with preceptors, in collaboration with the Clinical Placement Coordinator and course faculty.

Late Complete Withdrawal after the Deadline
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Note: Health policies are constantly under review by faculty based on CDC changing requirements and community expectations. Students will be notified of any policy changes, and compliance will be required.

Clinical Requirements
Detailed information is provided at student orientations and is provided in the School of Nursing Student Handbook.

Repeating Nursing Courses
MSN students who receive a grade of C+ or below in a required program course at UofL must repeat the course. Students who receive more than one C+ or below in the required MSN curriculum will be dismissed from the program. Students are allowed to repeat a course on a space-available basis.

Probation and Dismissal
If the cumulative grade point average falls below 3.0, the student will be placed on academic probation for the next regular semester. If the cumulative grade point average is not raised to a minimum of 3.0 by the end of the probation semester, the student will be dismissed from the program. The dismissal will be reflected on the student's transcript. If a student wishes to continue at the university, he/she must apply and be accepted to another unit in order to continue to enroll in classes.
Permission for Visiting Student Status at Another Institution

Students may apply for visiting student status should they wish to enroll in a nursing course at another institution while a student at the University of Louisville. If the course is being taken to apply toward the University of Louisville degree requirements, it is the student’s responsibility to check with OSS to confirm the equivalency of the course before they enroll. Students must provide OSS with the most recent copy of the course syllabus so that University of Louisville faculty can evaluate the course for equivalency. Once the equivalency status of the course has been determined, the applying student will be sent a letter of permission for visiting student status. Students are responsible for requesting that an official transcript be sent to the University’s Registrar’s Office upon completion of any transfer work.

Admissions Policies—MSN/School of Nursing

Students may be admitted into the Master of Science in Nursing (MSN) program for the Master’s Entry into Professional Nursing (MEPN) for a summer term only. The Master’s Entry into Professional Nursing (MEPN) is a graduate program for entry into practice, not advanced practice.

The Master of Science in Nursing, Certificate in Health Professions Education, admits for a fall term only.

Application Deadlines for Degree-Seeking Students

- Summer Semester for MSN/MEPN: October 15th
- Fall Semester for MSN, with Certificate in Health Professions Education: February 1st

Criteria for Admission to the Master of Science in Nursing

A holistic review process is used when considering applications for admission to the master’s program. The holistic review considers multiple criteria for admissions, such as: the applicant’s professional goals, academic capabilities, grade point averages, and quality of interview.

To be considered for admission to Degree Status, the following items must be submitted:

To the School of Interdisciplinary and Graduate Studies

- Completed University of Louisville Graduate Admissions Application, including an application fee (application available online at: louisville.edu/graduate/apply)
- Official transcripts representing all college coursework with a cumulative grade point average of at least 3.0 on a 4.0 scale. A bachelor’s degree must be earned from a regionally accredited institution. Students in the health professions education concentration must have a bachelor of science in nursing from a regionally and CCNE, ACEN, or NLN accredited institution.
- Applicants who have attended a college or university outside the United States are also required to submit an evaluation of their transcript through World Education Services (WES) (http://wes.org) or Educational Credential Evaluators (ECE) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.
- Two references from individuals who can speak to your academic and/or professional nursing capabilities and potential. Each person providing a reference for you must complete the University of Louisville, School of Interdisciplinary and Graduate Studies, Graduate Admission recommendation form (available online at: louisville.edu/graduate/apply)
- Submit a goal statement, 500 words or less, explaining your reasons for seeking the program, including short and long term professional goals. Describe how past educational, work, and/or life experiences have prepared you for this next step in the career. Upload on the admission application.
- Resume, upload on the admission application. For MSN, Certificate program include your RN license number on your resume.
- Verification of licensure from the Board of Nursing required for the MSN, Certificate. Upload on the admission application.
- Proof of English Proficiency: International students for whom English is not their primary language must show English language proficiency by 1) demonstration of a degree awarded from an acceptable English language institution or 2) acceptable examinations: TOEFL; International English Language Testing System (IELTS); successful completion of the exit examination for the advanced level of the intensive English as a Second Language Program. Recommended test scores are available on the University International Student website.

To the School of Nursing, Office of Student Services

- Completed Legal Questionnaire (available online at: louisville.edu/nursing)
- Criminal background check submitted through CertifiedBackground.com
- An interview with faculty may be required.

Students who do not meet admission requirements may contact the University of Louisville School of Nursing Office of Student Services for an advising appointment.

Conditional Admission to MSN Degree Program:

Students who do not meet these admission requirements may be considered for admission in conditional status.

Applications will not be considered for Full or Conditional Degree status unless all application materials are available to the review committee by the application deadline.

Criteria for Admission in Visiting Student Status to the Graduate Nursing Program:

Students admitted as visiting students are non-degree. Students admitted in non-degree status may not be eligible for some financial aid sources. Visiting students from other schools may apply each semester for non-degree status by submitting the following:

To the School of Interdisciplinary and Graduate Studies

- Graduate Admissions Application including an application fee.
- A letter of good standing from student’s home school or transcripts from graduate school in which the student is currently enrolled verifying a grade point average of 3.0 or higher.

Important Note: All applicants, regardless of their application status, are required to submit official transcripts for all college work completed. An
application fee is required of all applicants regardless of where previous degrees were earned.

The Master of Science in Nursing Curriculum

The faculty have moved to decrease barriers, provide a climate responsive to individual student needs, and to move towards graduating the most well-prepared practitioners in the Kentuckiana area. With the University of Louisville mission directed toward research, teaching, practice, and service, the School of Nursing is well situated to be the premier graduate program in the metropolitan area.

Master's Entry into Professional Nursing

The Master's Entry into Professional Nursing (MEPN) is designed for individuals with a baccalaureate degree in another area who want to pursue a career in nursing. The program provides the student with a general foundation in nursing with additional skills in the application of evidence based practice and leadership. Upon completion of the program, the student receives both Bachelor of Science in Nursing and Master of Science in Nursing Degrees.

Students are eligible to take the National Council Licensure Examination (NCLEX-RN) for registered nursing licensure. This is not an advanced practice registered nursing program. Prerequisites must be completed, or in progress, before being considered for admittance into the graduate program.

To ensure appropriate preparation for the program, the following prerequisites are required: Chemistry, Nutrition, Lifespan Developmental Psychology, Microbiology with lab, two semesters of Anatomy and Physiology with lab, Pathophysiology, Pharmacology. A minimum grade of C is required in all prerequisite courses. Students must consult with the program advisor for appropriate equivalencies.

Master's Entry into Professional Nursing (MEPN)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>NURS 401</td>
<td>Introduction to Professional Nursing Practice</td>
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<td>NURS 402</td>
<td>Therapeutic Nursing Intervention</td>
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<td>NURS 403</td>
<td>Adult Health</td>
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<td>NURS 404</td>
<td>Childbearing</td>
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<td>NURS 405</td>
<td>Child Health</td>
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</tr>
<tr>
<td>NURS 406</td>
<td>Psychiatric/Mental Health</td>
<td>4</td>
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<tr>
<td>NURS 407</td>
<td>Community Health</td>
<td>5</td>
</tr>
<tr>
<td>NURS 408</td>
<td>Care of the Adult with Complex Health Needs</td>
<td>7</td>
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<td>NURS 409</td>
<td>Capstone</td>
<td>2</td>
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<tr>
<td>NURS 503</td>
<td>Health Assessment</td>
<td>3</td>
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<tr>
<td>NURS 504</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 506</td>
<td>Leadership/EBP/Policy</td>
<td>2</td>
</tr>
<tr>
<td>NURS 507</td>
<td>Transitions to Practice</td>
<td>2</td>
</tr>
<tr>
<td>NURS 510</td>
<td>Application of Pathophysiology and Pharmacology Concepts I</td>
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<tr>
<td>NURS 511</td>
<td>Application of Pathophysiology and Pharmacology Concepts II</td>
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<tr>
<td>NURS 605</td>
<td>Theoretical Application for Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 607</td>
<td>Foundation Concepts of Evidence Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 608</td>
<td>Healthcare Systems and Economics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 613</td>
<td>Introduction to Health Care Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

MSN, Certificate in Health Professions Education

The Master of Science in Nursing, Certificate in Health Professions Education degree program is a partnership between the School of Nursing (SON) and the College of Education and Human Development (CEHD.) In order to earn the MSN, students must complete the requirements for the Certificate in Health Professions Education (HPE).

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ELFH 665</td>
<td>Foundations of Health Professions Education</td>
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<td>ELFH 675</td>
<td>Teaching and Learning in Health Professions Education</td>
<td>3</td>
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<tr>
<td>ELFH 676</td>
<td>Instructional Strategies in Health Professions Education</td>
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<td>NURS 608</td>
<td>Healthcare Systems and Economics</td>
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<td>NURS 610</td>
<td>Nurse Educator Clinical/Practicum</td>
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<td>NURS 613</td>
<td>Introduction to Health Care Policy</td>
<td>3</td>
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<td>NURS 652</td>
<td>Advanced Statistical Application</td>
<td>3</td>
</tr>
<tr>
<td>NURS 657</td>
<td>Health Promotion and Disease Prevention in Culturally Diverse and Vulnerable Populations.</td>
<td>3</td>
</tr>
<tr>
<td>NURS 652</td>
<td>Advanced Statistical Application</td>
<td>3</td>
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Minimum Total Hours 67.5

Nursing (PhD)

Doctor of Philosophy in Nursing (NURSPHDSMSN)

Unit: School of Nursing (http://louisville.edu/nursing) (GN) Program Webpage (https://%20louisville.edu/nursing/academics/phd)

Program Information

The Doctor of Philosophy in Nursing is designed to prepare nurse scientists to assume a variety of roles in education, research, leadership, and health policy. The program prepares nurse scientists to:

- Generate knowledge, test interventions and evaluate outcomes to reduce risks of illness/disability and promote quality of life;
- Collaborate with other disciplines to improve the delivery of healthcare;
- Assume research, leadership, executive, public policy and/or teaching roles; and,
- Affect health policy through the application of scientific knowledge.

Two progression options are offered: 1) BSN to PhD and 2) MSN to PhD. BSN to PhD students complete the first year of coursework at the master’s level and then continue on to the doctoral-level work without earning a master’s degree. The MSN to PhD students will enter directly into doctoral coursework.
The PhD in Nursing consists of at least 55 credit hours of coursework beyond the baccalaureate degree or 40 credit hours beyond a master’s degree plus dissertation credit hours. Full or part-time programs of study are available; however, full-time study is recommended to allow students to devote themselves entirely to the program and immerse themselves in the life of a scholar.

Assistantships
A PhD Graduate Student Assistantship is a financial award to a full-time PhD student for the period of one year. To be eligible for the award the student must be admitted to the PhD degree program or be a continuing PhD student. For the full year, the award includes tuition, health insurance, and a monthly stipend. The student is required to maintain full-time study during the award period and participate for 20 hours/week in a Research Assistant or Teaching Assistant role in the School of Nursing. These activities serve to augment and enrich the student’s academic program. The student will be assigned by the Associate Dean for Graduate Programs to either research or teaching and will coordinate their experience. Descriptions of activities are available for each type of assistantship. Assistantships are awarded on a competitive basis. Assistantship support is limited to a maximum of five years for BSN-PhD students and four years for MSN-PhD students.

Program Policies
Residency Requirement
In order that the student may be assured of an opportunity to utilize the educational facilities properly and to participate in the intellectual life and research atmosphere of the university, at least two years of study must be completed at the University of Louisville and at least one must be spent in full-time residency.

To be considered in full-time residency for one year, a student must be registered for 18, or more, credit hours in a 12 month period.

Repeating Nursing Courses
PhD students who receive a grade of C+ or below in a required PhD program course at UofL must repeat the course. Students who receive more than one C+ or below in their required PhD curriculum will be dismissed from the program. Students are allowed to repeat a course on a space available basis.

Student Health Services Requirements
Each student must comply with the current student health policy of the Health Sciences Center. All costs associated with compliance are the responsibility of the student. Because of contractual agreements with agencies and the changing needs of society, this policy is updated periodically. It is the responsibility of the student to maintain his/her health in order to ensure safety for other students and research subjects. If faculty or the agency deems that any student creates a health risk, the student may be excluded from the research or clinical area and/or the program.

Individual health care facilities, used as research or clinical sites by the School of Nursing, may have additional requirements. In this event, the student is required to comply with any additional requirements of that facility.

Health policies are constantly under review by faculty based on CDC changing requirements and community expectations. Students will be notified of any policy changes, and compliance will be required.

Clinical Compliance Requirements
Students will receive a copy of the Clinical Health Requirements at new student Orientation. Details are also provided in the School of Nursing PhD Student Handbook. Students must turn in all requirements prior to enrolling in any research methods course at the doctoral level. Noncompliance with any health or clinical requirement may preclude the student from participating in courses/research and/or be grounds for dismissal.

Admissions Criteria
Application deadline for fall semester admission is January 15th. Completed applications received after the January 15th deadline may be considered on a space available basis.

The holistic review process is used when considering applications for admission to the PhD Program in Nursing. The holistic review considers multiple criteria for admission, including: the applicant’s professional career goals, academic capabilities, GPA, GRE scores, research interest, RN license, area of expertise, community engagement and potential for a scholarly career in nursing.

Applicants should submit the following items to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
University of Louisville
Louisville, KY 40292

1. University of Louisville Graduate Application and application fee. Online submission is preferred: louisville.edu/graduate/apply.

The online version of the Graduate Application lists codes for the Nursing PhD program. If you are submitting a hard copy application form, please use the following codes:

• NURSPHDMSN- for students who have completed Master’s of Nursing degrees
• NURSPHDBSN- for students who have completed only the Bachelor of Science in Nursing Degrees.

2. Transcripts

• If BSN applicant: Official transcripts representing all college coursework with a recommended undergraduate cumulative grade point average of at least 3.0 on a 4.0 scale. Must verify completion of an accredited baccalaureate program in nursing. A bachelor’s degree must be earned from a regionally accredited institution. BSN program must have been accredited by CCNE or NLN.

• If MSN applicant: Official transcripts representing all college coursework with a recommended graduate cumulative grade point average of at least 3.25 on a 4.0 scale. Must verify completion of an accredited master’s program in nursing. MSN program must have been accredited by CCNE or NLN.

Applicants who have attended a college or university outside the United States are also required to submit an evaluation of their transcript through World Education Services (WES) or Educational Credential Evaluators (ECE). Please note that transcript evaluations can sometimes take several weeks.

3. Graduate Records Examination (GRE). Successful candidates generally have an Analytical score of 4.0 or higher. Recommended scores on the GRE are 156 verbal, 146 quantitative and 4 on the analytical writing score.
4. **Proof of English Proficiency.** International students for whom English is not their primary language must show English language proficiency by 1) demonstration of a degree awarded from an acceptable English language institution or 2) acceptable examinations: TOEFL; International English Language Testing System (IELTS); successful completion of the exit examination for the advanced level of the intensive English as a Second Language Program. Recommended test scores are available on the University International Student website.

5. **Three (3) Letters of Recommendation.** Recommendations from individuals who can speak of academic and/or professional capabilities and potential. Recommendations should be chosen from among: former faculty members, current or immediate past employers, or other nursing/health professionals.

This is done through the School of Interdisciplinary and Graduate Studies recommendation form (available online at louisville.edu/graduate/apply). Recommendation forms must have been completed within the last year.

6. **A Current Curriculum Vitae (CV) or Resume.** Include nursing license number on resume. International students need to be licensed as registered nurses in their country of origin, if licensure is available. If direct patient care activities are provided, a Kentucky RN licensure prior to December in their first year of study must be obtained.

7. **A written statement** of career goals, area(s) of expertise, research interest, and reasons for pursuing doctoral studies. Maximum three pages; double spaced; 12 point font.

Submit the following items to:

Office of Student Services  
School of Nursing  
University of Louisville  
Louisville, KY 40292

1. **School of Nursing Legal Questionnaire,** available at louisville.edu/nursing
2. **Personal Interview** with School of Nursing faculty will be required.
3. **Criminal Background Check** required. Information is available on website and through the School of Nursing, Office of Student Services.

Applicants accepted into the MSN-PhD program are strongly advised to have completed a three credit masters level statistics course (applied descriptive and inferential statistics) with a grade of B (3.0) or higher within five years before the date of enrollment.

Applicants who wish to take a refresher course will be advised of available statistics courses to take in the summer prior to beginning fall PhD coursework in statistics.

## Program Requirements

BSN students will complete 15 credit hours of required master’s-level courses.

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<td><strong>Master’s-Level Coursework</strong></td>
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<td>NURS 605</td>
<td>Theoretical Application for Practice</td>
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<td>NURS 607</td>
<td>Foundation Concepts of Evidence Based Practice</td>
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<tr>
<td>NURS 608</td>
<td>Healthcare Systems and Economics</td>
<td>3-4</td>
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or NURS 741 Advanced Pathophysiology

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<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NURS 652</td>
<td>Advanced Statistical Application (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 657</td>
<td>Health Promotion and Disease Prevention in Culturally Diverse and Vulnerable Populations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 15

BSN and MSN Students will complete the following 40 hours of required doctoral-level courses, the qualifying exam and a dissertation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Post-Master’s Coursework</strong></td>
<td></td>
</tr>
<tr>
<td>NURS 700</td>
<td>Theoretical Basis of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 702</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>NURS 710</td>
<td>Research Methodology I: Qualitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>NURS 711</td>
<td>Research Methodology II: Quantitative Design</td>
<td>3</td>
</tr>
<tr>
<td>NURS 712</td>
<td>Research Methodology III: Nursing Measurement</td>
<td>3</td>
</tr>
<tr>
<td>NURS 714</td>
<td>Research Methodology IV: Analysis of Existing Data</td>
<td>3</td>
</tr>
<tr>
<td>NURS 725</td>
<td>Leadership and Health Policy for the Doctorally Prepared Nurse</td>
<td>3</td>
</tr>
<tr>
<td>NURS 735</td>
<td>PhD Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>NURS 736</td>
<td>PhD Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>NURS 737</td>
<td>PhD Seminar III</td>
<td>1</td>
</tr>
<tr>
<td>NURS 738</td>
<td>PhD Seminar IV</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced Statistics Courses</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Three Cognates</td>
<td>9</td>
</tr>
<tr>
<td>DOCT 600</td>
<td>Doctoral Candidacy ^</td>
<td>0</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 40

^ Prerequisite: Completion of course work and successful completion of qualifying exam.

## Nursing Practice (DNP)

**Doctor of Nursing Practice (NURSDNPPNP)**

Unit: School of Nursing (https://louisville.edu/nursing) (GN)

Program Webpage (https://louisville.edu/nursing/academics/dnp)

**Program Information**

The Doctor of Nursing Practice is designed to prepare nurse leaders in the clinical and systems arena to meet the challenges of today’s healthcare environment. The DNP is focused on developing the advanced practice knowledge and skills to improve health outcomes of individuals or populations through direct care, management of care, administration of organizations, and implementation of health policy. The University of Louisville offers both the BSN-DNP and the MSN-DNP options. The BSN-DNP requires a minimum of three years of full-time study. The last two years of the program include 1,000 clinical and project hours. The MSN-DNP is designed for advanced practice nurses and focuses on leadership for population health. A minimum of two years of part-time study is required. Clinical hours vary depending on previous masters preparation. Students must provide documentation of previous clinical hours and complete a minimum of 330 project hours, for a total of 1,000 hours.
Specialties Available

- Adult Gerontology Acute Care
- Adult Gerontology Primary Care
- Family
- Neonatal
- Psychiatric/Mental Health

Program Academic Policies

Academic Progress in the Graduate Program

Satisfactory academic progress in a program involves maintaining the academic and professional standards expected in a particular discipline or program and many include a demonstration of the ability to function as a professional practitioner. Failure to maintain these standards or demonstrate such abilities may result in the termination of the student’s admission to the program.

Time Limitations for Degree-Seekers

Students must complete the degree requirements within six (6) years of beginning the program of study.

Removal from Clinical

A student who is unsafe in a clinical area or research setting is subject to academic action including dismissal from the program.

Course Offerings

Course offerings are subject to cancellation due to insufficient enrollment. Preceptorship/clinical experiences are scheduled on any day of the week based on availability of clinical sites and preceptors. Limited evening and weekend preceptorship experiences may be available. Preceptorship experiences throughout the state are also possible but not guaranteed. The office of the Associate Dean for Graduate Programs oversees student placement with preceptors, in collaboration with the Clinical Placement Coordinator and course faculty.

Late Complete Withdrawal after the Deadline

Upon proper documentation of extreme circumstances, a decision for approval of late complete withdrawals may be made by the Associate Dean for Graduate Programs. Late complete withdrawals are those requested after the deadline has passed and before the instructor has assigned a grade.

Students may not withdraw from any course after the published deadline in the online Schedule of Courses without the approval of the Associate Dean for Graduate Programs. This is granted only because of illness or conditions beyond the student’s control. The grade report would reflect a grade of W.

Student Health Services Requirements

Each student must comply with the current student health policy of the Health Sciences Center. All costs associated with the compliance are the responsibility of the student. Because of contractual Agreements with agencies and the changing needs of society, this policy is updated periodically. The current health policies are listed below. It is the responsibility of the student to maintain his/her health in order to ensure safety for other students and clients. If faculty or the agency deems that any student creates a health risk, the student may be excluded from the clinical experience and/or the program.

Note: Health policies are constantly under review by faculty based on CDC changing requirements and community expectations. Students will be notified of any policy changes, and compliance will be required.

Clinical Requirements

Before beginning the first clinical course in the DNP program, students must be in clinical compliance. Detailed information is provided at student orientations, the School of Nursing Graduate Student Handbook and is available through the School of Nursing, Office of Student Services.

Repeating Nursing Courses

DNP students who receive a grade of C+ or below in a required DNP program course at UofL must repeat the course. Students who receive more than one C+ or below in their required DNP curriculum will be dismissed from the program. Students are allowed to repeat a course on a space-available basis.

Probation and Dismissal

If the cumulative grade point average falls below 3.0, the student will be placed on academic probation for the next regular semester. If the cumulative grade point average is not raised to a minimum of 3.0 by the end of the probation semester, the student will be dismissed from the program. The dismissal will be reflected on the student’s transcript. If a student wishes to continue at the university, he/she must apply and be accepted to another unit in order to continue to enroll in classes.

Admissions Criteria

Application deadline for fall admissions is February 1, with Fall semester admissions only.

A holistic review process is used when considering applications for admission to the DNP program. The holistic review considers multiple criteria for admission, including: the applicant’s professional career goals, academic capabilities, GPA, work experience, certifications, leadership and community engagement.

To be considered for admission to the Doctor of Nursing Practice program, the following items must be submitted:

To the School of Interdisciplinary and Graduate Studies

1. Completed Graduate Admission Application including an application fee.
2. Transcripts
3. Three letters of recommendation from individuals chosen from among: former faculty, current or immediate past employer, or other nursing/health professional who can speak of academic and/or professional nursing capabilities and potential. At least one recommendation should be from a nurse. These letters should accompany the Letter of Evaluation form required by the School of Interdisciplinary and Graduate Studies.
4. Goal Statement that discusses career goals, areas of expertise, and reasons for pursuing a Doctor of Nursing Practice. Maximum of 3 pages; double spaced; 12-point font.
5. Resume including your RN license number. Include RN verification of licensure from the Board of Nursing.
6. Proof of English Proficiency. International students for whom English is not their primary language must show English language proficiency by 1) demonstration of a degree awarded from an acceptable English language institution or 2) acceptable examinations: TOEFL;
International English Language Testing System (IELTS); successful completion of the exit examination for the advanced level of the intensive English as a Second Language Program. Recommended test scores are available on the University International Student website.

**BSN-DNP applicants**: Official transcripts representing all college coursework from regionally accredited schools with a recommended cumulative undergraduate grade point average of at least 3.0 on 4.0 scale. Completion of an accredited (by NLN, CCNE or ACEN) baccalaureate program in nursing must be verified. Bachelor’s degree from a regionally accredited university is required.

**MSN-DNP applicants**: Official transcripts representing all college coursework with cumulative graduate and undergraduate grade point averages of at least 3.25 on 4.0 scale. Completion of an accredited (by NLN, CCNE or ACEN) graduate and undergraduate programs in nursing must be verified. Bachelor’s degree from a regionally accredited university is required.

Applicants who have attended a college or university outside the United States are also required to submit an evaluation of their transcript through World Education Services (WES) (http://wes.org) or Educational Credential Evaluators (ECE) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.

**To the School of Nursing, Office of Student Services**
1. Completed online Legal Questionnaire
2. A Certified Background Check
3. A personal interview may be required.

Neonatal specialty requires a minimum of one year of work experience in a Level III or Level IV NICU prior to admission. Work experience recommended prior to the first DNP clinical course in all other specialties.

**Program Requirements**

### BSN-DNP Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 605</td>
<td>Theoretical Application for Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 607</td>
<td>Foundation Concepts of Evidence Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 608</td>
<td>Healthcare Systems and Economics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 652</td>
<td>Advanced Statistical Application</td>
<td>3</td>
</tr>
<tr>
<td>NURS 657</td>
<td>Health Promotion and Disease Prevention in Culturally Diverse and Vulnerable Populations.</td>
<td>3</td>
</tr>
<tr>
<td>NURS 725</td>
<td>Leadership and Health Policy for the Doctorally Prepared Nurse</td>
<td>3</td>
</tr>
<tr>
<td>NURS 740</td>
<td>Advanced Pharmacology ¹</td>
<td>3</td>
</tr>
<tr>
<td>NURS 741</td>
<td>Advanced Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 742</td>
<td>Advanced Physical Assessment ¹</td>
<td>3</td>
</tr>
<tr>
<td>NURS 743</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 744</td>
<td>Synthesis and Evaluation of Evidence in Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 745</td>
<td>Health Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 746</td>
<td>Program Development &amp; Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>NURS 747</td>
<td>Finance Management</td>
<td>2</td>
</tr>
<tr>
<td>NURS 748</td>
<td>Transformational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 750</td>
<td>DNP Project 1: Project Inception</td>
<td>3</td>
</tr>
<tr>
<td>NURS 751</td>
<td>DNP Project 2: Project Implementation</td>
<td>3</td>
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</tbody>
</table>

Minimum Total Hours 46

¹ Not required for Neonatal

### DNP Specialties

#### Adult Gerontology Acute

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 754</td>
<td>Clinical Reasoning in Advanced Practice Nursing</td>
<td>1</td>
</tr>
<tr>
<td>NURS 756</td>
<td>Procedures &amp; Diagnostics for Adult Health</td>
<td>2</td>
</tr>
<tr>
<td>NURS 760</td>
<td>Gerontology Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>NURS 779</td>
<td>Diagnosis &amp; Management in Acute Care I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 780</td>
<td>Procedures &amp; Diagnostics for Acute Care</td>
<td>2</td>
</tr>
<tr>
<td>NURS 781</td>
<td>Diagnosis &amp; Management in Acute Care II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 783</td>
<td>Diagnosis &amp; Management in Acute Care III</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum Total Hours 14

#### Adult Gerontology Primary Care

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NURS 753</td>
<td>Adolescent Well Child Theory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 754</td>
<td>Clinical Reasoning in Advanced Practice Nursing</td>
<td>1</td>
</tr>
</tbody>
</table>
NURS 755  Diagnosis and Management of Adult Health in Primary Care  4
NURS 756  Procedures & Diagnostics for Adult Health  2
NURS 757  Diagnosis and Management of Women’s Health in Primary Care  2
NURS 758  Diagnosis and Management of Mental Health in Primary Care  2
NURS 759  Diagnosis and Management of Geriatric Health in Primary Care  2
NURS 760  Gerontology Pharmacology  1

Minimum Total Hours  15

Family Nurse Practitioner
Code   Title                                             Hours
NURS 754  Clinical Reasoning in Advanced Practice Nursing  1
NURS 755  Diagnosis and Management of Adult Health in Primary Care  4
NURS 756  Procedures & Diagnostics for Adult Health  2
NURS 757  Diagnosis and Management of Women’s Health in Primary Care  2
NURS 758  Diagnosis and Management of Mental Health in Primary Care  2
NURS 760  Gerontology Pharmacology  1
NURS 761  Pediatric & Adolescent Well Child Theory  2
NURS 762  Diagnosis & Management of Pediatrics in Primary Care  2

Minimum Total Hours  16

Neonatal Nurse Practitioner
Neonatal specialty requires a minimum of one year of work experience in a Level III or Level IV NICU prior to admission. Work experience recommended prior to the first DNP clinical course in all other specialties.

Code   Title                                             Hours
NURS 761  Pediatric & Adolescent Well Child Theory  2
NURS 763  Advanced Neonatal Physiology & Pathophysiology I  3
NURS 764  Neonatal Diagnostic Reasoning I  1
NURS 765  Advance Neonatal Physiology & Pathophysiology II  3
NURS 766  Neonatal Diagnostic Reasoning II  1
NURS 767  Neonatal Residency I  3
NURS 768  Neonatal Residency II  3
NURS 769  Neonatal Residency III  3
NURS 784  Advanced Neonatal Pharmacology  3
NURS 785  Advanced Neonatal Assessment  3
NURS 786  Human Embryology and Genetics  3

Minimum Total Hours  28

Psychiatric Mental Health
Code   Title                                             Hours
NURS 770  Advanced Psych Assessment & Clinical Interview  2
NURS 771  Psychopathology  2
NURS 772  Psychopharmacology  2
NURS 773  Management of Psychiatric/Mental Health Conditions: Foundation of Individual Psychotherapy  3
NURS 774  Diagnosis and Management in Psych/Mental Health: Group Psychotherapy and Care of Special Populations  3
NURS 775  Diagnosis and Management of Psychiatric/Mental Health Conditions  3

Minimum Total Hours  15

Oral Biology (MS)

Master of Science in Oral Biology (OBIOMS)
Unit: School of Dentistry (http://louisville.edu/dentistry) (GD)
Program Webpage (https://louisville.edu/dentistry/degrees/oralbiology/msob)

Program Information
The School of Dentistry (http://louisville.edu/dentistry/degrees/oralbiology) offers a research-based program leading to the Master of Science degree in Oral Biology (http://louisville.edu/dentistry/degrees/oralbiology/msob). The program is directed toward an in-depth understanding of the biology of the oral cavity and processes leading to disease, including the interactions between oral and systemic health. Students obtain the scientific knowledge and biomedical skills required to perform contemporary dental research. This is a research-based degree for which each student completes a thesis project under the guidance of a faculty mentor. Research projects include basic, clinical, and translational studies.

The MS in Oral Biology offers training important to persons wishing to pursue a career in either academic or clinical dentistry or to enter the biotechnology sector or advance to a PhD. The program is available to students wishing to obtain only the MS in Oral Biology degree, as well as to students currently enrolled in the DMD degree program wishing to earn a dual degree (DMD/MS), and persons who have previously earned a DMD or MD (or equivalent) degree, including international applicants. See louisville.edu/dentistry/degrees/oralbiology .

Areas for research training include: molecular, cellular and craniofacial biology; craniomaxillofacial diagnostic imaging; neural crest-related craniofacial and cardiovascular disorders; regulation of gene transcription; oral microbiology and immunology; cellular mechanisms of salivary gland secretion; birth defects; infection control; protein glycosylation; protein expression and trafficking; periodontology; dental materials science; orthodontics; endodontics; prosthdontics; and
health services research related to dentistry. Developmental biology, oral microbiology, and innate immunology are particular strengths of the program.

A minimum of 30 credit hours is needed for the MS degree. Requirements for the degree include courses in introductory and advanced oral biology and in data analysis, participation in seminars, development of a biomedical research project, and a thesis.

Individualized programs are developed by students working with their thesis advisor and graduate committee. The graduate committee also approves proposed thesis research, reviews the thesis research, reviews the thesis for acceptance, and administers a final oral examination. Additional important information about the program is available in the Oral Biology Program Guide (http://louisville.edu/dentistry/degrees/oralbiology/msob/curriculum).

**Admission Requirements**

Information about application process is at Louisville/oralbiology/msob/admissions (http://louisville.edu/dentistry/degrees/oralbiology/msob/admissions). Application for the program is online at louisville.edu/graduate/apply/. There is a non-refundable application fee. Applications are not processed until the application fee is received and all required application materials have been received by the School of Interdisciplinary and Graduate Studies, Graduate Admissions.

Credentials listed below should be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, by the following admission deadlines for complete applications:

- **June 5** for Fall
- **November 1** for Spring

Applications that are not complete by the deadline may not be reviewed in time for registration.

Students currently enrolled in the DMD degree program who wish to also apply to the MS degree in Oral Biology program should meet with the Program Director or Director of Student Affairs to determine a timeline for making an application.

**Admission Credentials**

(See Oral Biology Program Guide (http://louisville.edu/dentistry/degrees/oralbiology/msob/admissions))

- Application and application fee
- Transcripts of all college coursework, including evidence of a baccalaureate degree
- Graduate Record Examination scores or acceptable scores on the DAT or National Boards Dental Exam (NBDE)
- Two letters of recommendation which document your research experience or academic ability
- A personal statement of research experience or interest in research, and your career goals
- TOEFL scores, if English is not applicant’s native language

**Program Requirements**

The **minimum** requirement for the MSOB degree is **30 semester hours**. At least one-half of the credits counting toward the degree (exclusive of thesis) must be in courses open to graduate students only (600 level or above).

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**Major Subject Core Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OID 501</td>
<td>Biomedical Data Analysis: Experimental Design and Statistics</td>
<td>2</td>
</tr>
<tr>
<td>OID 601</td>
<td>Introduction to Oral Biology Research</td>
<td>4</td>
</tr>
<tr>
<td>OID 605</td>
<td>Oral Health Seminars (2 semesters, 0.5 credits each)</td>
<td>1</td>
</tr>
<tr>
<td>OID 606</td>
<td>Oral Biology Communication</td>
<td>1</td>
</tr>
</tbody>
</table>

**Major Subject Selective Courses (see list below)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OID 619</td>
<td>Graduate Research (minimum of 8 semester hours required)</td>
<td>1</td>
</tr>
<tr>
<td>OID 620</td>
<td>Thesis (minimum of 6 credit hours required)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

**Major Subject Selective Courses**

In addition to the list below, courses may be chosen from any 600-level courses offered by the School of Interdisciplinary and Graduate Studies that are deemed to be relevant and applicable to the student's program of study and thesis research, with approval by the student's thesis advisor/director and the Program Director.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OID 600</td>
<td>Concepts in Oral Immunology</td>
<td>2</td>
</tr>
<tr>
<td>OID 604</td>
<td>Oral Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>OID 610</td>
<td>Advanced Topics in Oral Biology</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 611</td>
<td>Craniofacial Osteology</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 612</td>
<td>Craniomaxillofacial Diagnostic Imaging</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 613</td>
<td>The Diagnosis &amp; Treatment of Temporomandibular Disorders</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 614</td>
<td>Advanced Oral Diagnosis and Oral Medicine</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 615</td>
<td>Advanced Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 616</td>
<td>Overview of Medical Genetics in Oro-Facial Disease</td>
<td>1</td>
</tr>
<tr>
<td>OBIO 617</td>
<td>Advanced Oral Pathology</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Prerequisite: OID 601 Introduction to Oral Biology Research
2. Requires course director approval. Graduate level clinical courses may require DMD or equivalent.
3. Course provided every second year.

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**Pan-African Studies (CERT)**

**Graduate Certificate in Pan-African Studies (PAS CPA)**

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro/ (GA))

Department/Program Website: Pan-African Studies (http://louisville.edu/panafricanstudies)

**Program Information**

The Department of Pan-African Studies (PAS) fosters the multidisciplinary study of the societies and cultures of Africa and persons of African ancestry past and present, throughout the world. To this end, PAS offers an extensive program of study, including undergraduate major
and minor and, ultimately, graduate programs focusing on Africa and the Diaspora. This program of study seeks to:

1. Give students a broad understanding of the history, societies, and cultures of the African world;
2. Equip students to apply Pan-Africanist scholarship to the analysis of and engagement with contemporary social and cultural issues;
3. Engage in the interrogation of prior research and build new scholarship that reflects the perspectives and experiences of people from the African Diaspora;
4. Prepare students for the workforce or for graduate work in Pan-African Studies and/or related fields;
5. Add an inter-cultural dimension to other academic programs.

Fifteen faculty members hold full or joint appointments in the Department of Pan-African Studies with areas of specialization that include art, religion, music, communications, literature, popular culture, history, anthropology, education, sociology and political science of the African world.

As scholars, the faculty of the Department contributes to the creation of new knowledge and the development of new methodologies emerging from Pan-African experiences and formulations of meaning. The Department is committed to sharing this knowledge through teaching and research, and applying it through service in the local, state, regional, national and international communities. PAS aspires, as its ultimate goal, to become a Department of national and international distinction.

Admission Requirements

Admission to the graduate certificate in Pan-African Studies is open, potentially, to any student who has completed at a minimum baccalaureate degree. Post-baccalaureate students wishing to pursue the certificate outside the framework of a graduate degree program must apply for admission through and meet the general requirements for admission to the School of Interdisciplinary and Graduate Studies. These requirements include the submission of:

- An official transcript reflecting previous degrees earned
- At least two letters of recommendation
- Graduate Record Examination (GRE) scores of the General Test Section

If resource limitations necessitate the imposition of restrictions, the PAS Graduate Programs Committee will select students based on the following criteria: 1) undergraduate record; 2) letters of recommendation; 3) personal interview; and 4) GRE scores.

Graduate students wishing to pursue the certificate program in Pan-African Studies in conjunction with a graduate degree must meet the requirements for admission to that degree program and should then apply for the certificate program by consulting the PAS Director of Graduate Studies after admission. Depending on the structure of the degree program, coursework toward the certificate may be either additional hours beyond those required for the degree or elective hours toward the degree or a combination of the two. The PAS Director of Graduate Studies shall then inform the student’s degree program chair and work to coordinate the completion of degree and graduate certificate program requirements.

Requirements for the Graduate Certificate in Pan-African Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approved PAS Courses (available in the Department of Pan-African Studies)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Historical Studies (3 credits)</td>
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</tr>
<tr>
<td></td>
<td>Cultural Studies (3 credits)</td>
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</tr>
<tr>
<td></td>
<td>Social Studies (3 credits)</td>
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<tr>
<td></td>
<td>Approved Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

Courses must be approved for graduate credit in accordance with the policies of the Graduate School. Students may not apply 500-level courses taken for undergraduate credit.

At least 3 hours must be at the 600 level.

Coursework toward the Graduate Certificate in Pan-African Studies may also count toward the student’s graduate degree.

1 Substitutions must be approved by the Director of Graduate Studies.
2 For students pursuing graduate degrees, at least one course must be outside of the department in which the student is pursuing the degree. Substitutions must be approved by the Director of Graduate Studies.

Pan-African Studies (MA)

Master of Arts in Pan-African Studies (PAS MA)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Pan-African Studies (https://louisville.edu/panafricanstudies)

Program Information

The Master of Arts in Pan-African Studies program provides an opportunity for structured graduate study in the multi-disciplinary field of Pan-African Studies. Students will have the option of choosing between two concentrations:

- African American Studies
- African Diaspora Studies

These broad concentration areas reflect sub-disciplines within the larger field of Pan-African Studies and will enable students to focus more intensively on their particular area(s) of interest. Students must
successfully complete 33 hours of graduate level courses of which 5 courses must be at the 600 level. Each student also must complete a thesis.

The Pan-African Studies Department offers courses that may be applied toward graduate degrees in other areas. Students must obtain their program advisor’s permission before enrolling in these courses. Students who are interested in more information on these courses should contact the department’s Director of Graduate Studies (DGS).

Admission Requirements
The Pan-African Studies Graduate Studies Committee only considers applications for the Fall semester. The deadline for applications is January 15.

Students applying for admission to the Master of Arts in Pan-African Studies program must meet the following standards:

• Minimum 3.00 undergraduate cumulative grade point average
• Submission of an official transcript reflecting previous degree earned
• Three letters of recommendation
• Graduate Record Examination (GRE); successful students usually have a minimum combined score of 300
• Submission of a personal statement
• Submission of a current CV
• Online Application (http://louisville.edu/graduate/apply)
• Writing Sample

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PAS 601</td>
<td>Pan-African Research</td>
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<tr>
<td>PAS 602</td>
<td>Theories And Issues in Pan-African Studies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Three PAS courses for graduate credit distributed as follows:</td>
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</tr>
<tr>
<td></td>
<td>Historical Studies (3 credits)</td>
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<tr>
<td></td>
<td>Cultural Studies (3 credits)</td>
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</tr>
<tr>
<td></td>
<td>Social Studies (3 credits)</td>
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</table>

Concentration Area 12

Select a concentration area:

African American Studies

PAS courses for graduate credit focusing on African Americans distributed as follows:

Histories (3 credits)
Cultural Studies (3 credits)
Social Studies (3 credits)
Any PAS area focusing on African Americans (3 credits)

OR

African and Diaspora Studies

PAS courses for graduate credit focusing on Africa and/or the Diaspora, distributed as follows:

Historical Studies (3 credits)
Cultural Studies (3 credits)
Social Studies (3 credits)
Any PAS area focusing on Africa and/or the Diaspora (3 credits)

Thesis
PAS 604 Thesis 3

Elective
Elective in Related Field (with advisor’s approval) 3

Minimum Total Hours 33

A student may be approved to transfer up to six (6) credit hours from another university or UofL graduate program or up to nine (9) credit hours from the UofL Pan-African Studies graduate certificate program. Courses must be graded B or higher, cross-listed with PAS, and taken at graduate level.

Pan-African Studies (PhD)

Doctor of Philosophy in Pan-African Studies (PAS PHD)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Pan-African Studies (https://louisville.edu/panafricanstudies)

Program Information

The PhD program in Pan-African Studies trains professional researchers at the highest level in one or more of the traditional disciplines as well as focusing on two substantive areas: African American or African Diaspora Studies.

The expertise of the present core and affiliated faculty to the Department of Pan-African Studies is spread across African American and African Diaspora history, philosophy, sociology, political science, linguistics, religion, education, social work, literature, law, geography, psychology, art, music, anthropology, women’s and gender studies. This amalgam of interdisciplinary subjects makes the department a highly active research and teaching unit that is well positioned to offer a degree of Doctor of Philosophy in Pan-African Studies.

The PhD is designed to educate students with the knowledge, analytic abilities, and professional development skills important for both academic and non-academic careers. Since fall of 2012, the program has been open to all students regardless of race/ethnicity, gender, religion, sexual preference, or nationality. Graduates are employable in public and private corporations in areas of education and research, public policy, cultural heritage and public history, programs that deal with human rights and social inequality, economics and trade.

Admission Requirements
To be admitted students must have the following:

• Advanced competency in research skills, as evidenced by completion of a master’s degree thesis or other independent research project,
Program Requirements

Coursework Structure (full-time)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>Year I &amp; II</td>
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<td></td>
<td>Research Strategies</td>
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<td></td>
<td>PAS 624 Quantitative Research Strategies and Pan-African Research</td>
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<tr>
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<td>PAS 623 Qualitative Research Strategies and Pan-African Research</td>
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<td></td>
<td>Research Strategies - Discipline Based (Historical, Social, Cultural</td>
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<tr>
<td></td>
<td>- courses not in PAS)</td>
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<tr>
<td></td>
<td>Intellectual Approaches</td>
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<tr>
<td></td>
<td>PAS 622 Theories of the Pan-African Diaspora</td>
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<tr>
<td></td>
<td>PAS 615 Theories of Race and Racism</td>
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<td>Select one of the following:</td>
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<td>Seminar on Race &amp; Ethnicity in the Diaspora</td>
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<td></td>
<td>- or -</td>
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<td></td>
<td>Intellectual Approaches - Discipline Based (Historical, Social, Cultural</td>
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<td>- courses not in PAS)</td>
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<td>Minor (Electives)</td>
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<td>Professional Development Seminar</td>
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<td></td>
<td>PAS 701 Doctoral Exam Preparation (Summer course, reading for</td>
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<tr>
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<td>Year III</td>
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<td>Semester 1</td>
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<tr>
<td>Special Topics Courses and Comprehensive &amp; Special Topics Exams</td>
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<tr>
<td>Semester 2</td>
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<td></td>
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<tr>
<td>PAS 702 Dissertation Research</td>
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<tr>
<td>Year IV</td>
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<tr>
<td>Semester 1</td>
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<tr>
<td>PAS 702 Dissertation Research (and Writing)</td>
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<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAS 702 Dissertation Research (Defend Dissertation)</td>
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<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>64</td>
<td></td>
</tr>
</tbody>
</table>

Based on this structure students will take at least five courses in a specific discipline at the end of the first two years. These include one in research strategy, one in intellectual approaches, two electives, and at least one course cross-listed with PAS. These courses can also be in another area study such as Women’s and Gender Studies, Latin American/Latino Studies, etc.

Students may transfer six (6) credit hours from a previously earned master’s degree toward the PhD, subject to the approval of the degree program and the Unit Dean. Students with a PAS MA degree will be allowed to transfer a maximum of 12 credit hours to the PhD. In both cases, students must petition for additional credit hours. Only courses in which the student earned grades of B or better will be considered for transfer.

1 Four (4) courses in one of two tracks: African American Studies or the African Diaspora and within a historical, social or cultural field. At least one of these must be cross-listed.

University of Louisville
Courses from this area are potential teaching/research fields. They could be cross-listed with other departments and must be discipline/subject based. For example, a PhD student interested in history of the "Slave Trade," will study this as a history class with possible specialization in the "Atlantic Slavery" or "African Slavery" or "Comparative Slavery," etc. Upon graduation, the student can compete favorably for jobs in traditional History Departments as well as Black Studies Departments.

The two elective courses could be taken outside the PAS as part of the student’s potential teaching fields.

Pharmacology and Toxicology (MS)

Master of Science in Pharmacology and Toxicology (PHTXMS)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department/Program Webpage (https://louisville.edu/medicine/departments/pharmacology)

Program Information

The Department of Pharmacology and Toxicology is committed to academic excellence and to the attainment of regional, national, and international recognition for the quality of its educational, research, and service activities. The Department Strategic Plan includes five broad objectives:

- Provide instruction in pharmacology and toxicology of the highest quality for the education and preparation of medical, dental, nursing, and other health care professional students. Emphasis will be placed on the fundamental principles necessary for life-long learning and the essential knowledge required for rational, effective, and safe use of drug therapy.
- Advance biomedical knowledge through active contribution to high-quality research and other scholarly activities, particularly in pharmacology and toxicology and other areas of focus within the University of Louisville Strategic Plan.
- Provide high-quality research and educational experiences in pharmacology and toxicology for the education and training of future biomedical scientists who can provide and advance biomedical knowledge for the education and training of future biomedical scientists who can provide and advance biomedical knowledge.
- Provide instruction of the highest quality in pharmacology and toxicology for the education and training of future biomedical scientists who can provide and advance biomedical knowledge, research, and service.
- Provide instruction of the highest quality in pharmacology and toxicology that is appropriate for students at the undergraduate, graduate, and postgraduate levels.
- Provide high-quality service to the School of Medicine, the Health Sciences Center, the University, the people of Louisville and the surrounding region, the Commonwealth of Kentucky, professional organizations, the nation, and the world.

Goals of the Program

The Department of Pharmacology and Toxicology is dedicated to advancing biomedical knowledge through active contribution to high-quality research in pharmacology and toxicology and to providing high-quality research and educational experiences for the education and training of future biomedical scientists who advance biomedical education, research, and service.

Admission Requirements

For the Department of Pharmacology and Toxicology, complete guidelines are given below.

Application Forms

All candidates for admission to graduate programs at the University of Louisville must complete the application form found at louisville.edu/graduate/apply/.

This may be completed online or may be submitted via mail to:

Office of Interdisciplinary and Graduate Studies
Houchens Bldg, Rm 105
University of Louisville
Louisville, KY 40292
United States of America

Applications are received at any time for starting dates of approximately August 1. All credentials and/or communications should be submitted to the Office of Interdisciplinary and Graduate Studies, Graduate Admissions and should contain the student’s full name and Social Security Number or University of Louisville issued student ID. Lack of Social Security Number may cause processing to be delayed. Applications received by January 1 are assured of full consideration for that year. Admission on a conditional basis is a possibility in rare, special cases, even though application materials are incomplete. Please contact the department (phtxapps@louisville.edu) for additional information.

Application Fee

A non-refundable application fee is required with the application form. An application will not be forwarded to the department until this fee is paid. A check or money order should be made payable to the “University of Louisville.”

Transcripts

Applicants for admission to a degree program must submit an official transcript from each college attended. All University of Louisville transcripts will automatically be submitted with completion of an application. All applications are considered on an individual basis. Normally, a successful applicant will have an undergraduate GPA of 3.00 or higher and will have successfully completed sufficient coursework in biology, chemistry and mathematics.

Test Scores

Applicants normally must take the general section of the Graduate Record Examination (GRE). There is no absolute cutoff score for acceptance. Each case is decided on the totality of its merits. At the discretion of the department, MCAT or other entrance examination scores may be accepted in place of the GRE. Information can be obtained from:

- University of Louisville Testing Center, or
- Graduate Record Examination Educational Testing Service Box 955 Princeton, NJ 08541, or
- gre.org/ (http://www.gre.org)

The GRE Advanced Test in a discipline is not required, but if available will be used in admissions and placement decisions.

NOTE: GRE Institution Code is R1838-University of Louisville. The GRE major codes are 0216 - Pharmacology or 0219 - Toxicology.

Statement of Experience and Professional Goals

At the time of application, a two to three page typed statement should be sent to introduce the student to the faculty of the Department, describing
past educational, laboratory and relevant life experiences, as well as outlining professional goals after the degree program.

This statement can be sent electronically to gradadm@louisville.edu (jcstat01@louisville.edu) or via mail to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
Houchens Bldg, Rm 105
University of Louisville
Louisville, KY 40292
United States of America

English Proficiency
All applicants for whom English is a second language must also submit official TOEFL scores of 79 or higher on the internet-based test or 550 or higher on the paper-based test for verification of English proficiency. Students holding a bachelor’s or advanced degree from an accredited institution in the United States are exempt from this requirement.

Information concerning the TOEFL exam can be obtained from: University Testing Center, or Test of English as a Foreign Language PO Box 6151 Princeton, NJ 08541 USA or toefl.org (http://www.toefl.org) The institutional code of UofL for TOEFL is 1838. The TOEFL department code is 30 (other biological sciences.)

Personal Interview
Whenever possible, a personal interview, either in person or via telephone will be held before final offer and acceptance of a position in the MS program.

Letters of Recommendation
Three letters of recommendation from persons familiar with the applicant’s research and/or academic work are required. These recommendations will ideally include a letter attached to the recommendation form (pdf form (http://graduate.louisville.edu/admissions/grad-rec.pdf)), or may be completed electronically via the online application (http://graduate.louisville.edu/apply).

International Student Applicants
In addition to satisfying the appropriate credential requirements, applicants may be required to provide the following documents.

• Applicants who attended college outside the US must submit verbatim notarized English translations of all academic records and credentials.

Financial Aid
The Department normally provides no funds for such support of master’s degree students.

Residency Policy
Residency status for students is determined in the School of Interdisciplinary and Graduate Studies, Graduate Admissions. The status is determined according to the policy on classification of students for fee assessment purposes at state-supported institutions of higher education. Except as provided in the guidelines, it is presumed that a resident has remained in the state in a non-student status for the twelve months immediately preceding the last date for enrollment in the institution.

The domicile of an unemancipated person, as defined in the guidelines, is that of his/her parent. The domicile of a married person is determined by the provisions of the guidelines independent of the residence of the spouse. Copies of the guidelines and appropriate forms for requesting change of residence classification may be obtained from the Office of Student Services.

Indiana Tuition Reciprocity
The University of Louisville is participating in an Indiana Tuition Reciprocity Program for residents of Clark, Crawford, Floyd, Harrison or Scott Counties who have been admitted directly into an approved graduate program. Eligible participants are required to notify the Admissions Office prior to their first enrollment and the Registrar’s Office after their first enrollment of any changes in residency status (e.g., if they no longer live in one of the eligible counties, or are no longer in an eligible program). The university reserves the right to further investigate and require documentation of eligibility for tuition reciprocity.

For Military Personnel
If an applicant, spouse or parent (if dependent) is currently stationed in Kentucky on military active duty for one or more years, please attach a copy of the military orders, a lease or mortgage showing Kentucky address and a military dependent identification card if appropriate. If the applicant is a Kentucky resident but has been in the military and has been recently discharged, please send a copy of the military discharge papers (DD-214).

International Students on Immigrant/ Permanent Resident Status
If currently on an immigrant/ permanent resident status, it will be necessary to submit a copy of an immigration/ permanent resident card, both sides, for review of possible residency classification for tuition purposes.

• Transcripts must be evaluated by a credential evaluation service such as World Education Services (wes.org (http://www.wes.org)) or Educational Credential Evaluators (www.ece.org (http://www.ece.org)) for admission.
• If on a Visa that requires an I-20 or IAP-66, the applicant is required to complete an Application Supplement/Financial Declaration form and submit appropriate financial documentation.

The University of Louisville reserves the right to change programs of study, academic requirements, fees, schedules of courses, the announced academic calendar and deadlines without prior notice.

Program Requirements
The Master of Science in Pharmacology and Toxicology program is a 1.5+ year course of study culminating in the presentation and defense of a master’s thesis. The master’s thesis may be based on laboratory research, a “dry” library-based research project, or a combination of the two.

The MS curriculum is designed for:

1. Individuals interested in a terminal master’s degree who do not require extensive research experience or credentials, e.g., pharmaceutical representatives, medical insurance providers, medico-legal professionals

2. Pairing with other programs to form hybrid or dual science/business or public health degrees, such as an MS/MBA or MS/MPH programs

3. Individuals interested in progressing through management ranks in Pharmacology or biotech businesses
4. The basis for a scientific writing career, when coupled with extensive scientific writing experience or electives
5. The basis for a career in biotechnology, when combined with theoretical and practical training in laboratory analysis

### Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>PHTX 641</td>
<td>Pharmacology I</td>
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<td>PHTX 643</td>
<td>Toxicology I</td>
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<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
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<tr>
<td>PHZB 616</td>
<td>Selected Topics in Physiology and Biophysics (Physiological Concepts for General Life Sciences)</td>
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<td>PHTX 606</td>
<td>Seminar</td>
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<td>PHTX 617</td>
<td>Laboratory Rotation Research</td>
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<td>PHTX 642</td>
<td>Pharmacology II</td>
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<td>PHTX 644</td>
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<td>Responsible Conduct of Research: Survival Skills and Research Ethics</td>
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<td><strong>Summer</strong></td>
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<td>PHTX 632</td>
<td>Analysis of Parametric &amp; Nonparametric Data</td>
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<td>Master’s Candidacy</td>
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<td>Preparation, presentation, and defense of Master’s thesis and award of MS degree (if required)</td>
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### Pharmacology and Toxicology (PhD)

**Doctor of Philosophy in Pharmacology and Toxicology (PHTXPHD)**

Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department/Program Webpage (https://louisville.edu/medicine/departments/pharmacology)

### Program Information

The Department of Pharmacology and Toxicology is committed to academic excellence and to the attainment of regional, national, and international recognition for the quality of its educational, research, and service activities. The Department Strategic Plan focuses accomplishment of five broad objectives:

- Providing instruction in pharmacology and toxicology of the highest quality for the education and preparation of medical, dental, nursing, and other health care professional students. Emphasis will be placed on the fundamental principles necessary for life-long learning and the essential knowledge required for rational, effective, and safe use of drug therapy.
- Advancing biomedical knowledge through active contribution to high-quality research and other scholarly activities, particularly in pharmacology and toxicology and other areas of focus within the University of Louisville 2020 Strategic Plan.
- Providing high-quality research and educational experiences in pharmacology and toxicology for the education and training of future biomedical scientists who can provide and advance biomedical education, research, and service.
- Providing instruction of the highest quality in pharmacology and toxicology that is appropriate for students at the undergraduate, graduate, and postgraduate levels.
- Providing high-quality service to the School of Medicine, the Health Sciences Center, the University, the people of Louisville and the surrounding region, the Commonwealth of Kentucky, professional organizations, the nation, and the world.

### Goals of the Program

The Department of Pharmacology and Toxicology is dedicated to advancing biomedical knowledge through active contribution to high-quality research in pharmacology and toxicology and to providing high-quality research and educational experiences for the education and training of future biomedical scientists who advance biomedical education, research, and service.

### Student Financial Support

Students accepted into the PhD program will be considered for an IPIBS graduate student fellowship. The fellowship pays an annual stipend of $25,000 in addition to payment of student tuition and health insurance. The Department also houses a NIEHS-funded T32 environmental health sciences training program (https://louisville.edu/medicine/departments/pharmacology/research/program-description) which provides stipend support for selected students.

Since all PhD students and candidates are considered to be full-time students, they generally are not permitted to seek outside employment while enrolled in the doctoral program. In cases where financial aid is limited and additional support is essential, students needing outside employment must apply in writing for departmental faculty approval. The faculty must also approve any change in employment, as well as approving continued outside employment on an annual basis.

The University of Louisville reserves the right to change programs of study, academic requirements, fees, schedules of courses, the announced academic calendar and deadlines without prior notice.

### Admission Requirements

For the Department of Pharmacology and Toxicology complete guidelines are given below:

1. Application forms. All candidates for admission to graduate programs at the University of Louisville must complete the application form found at louisville.edu/graduate/apply. This must be completed online.
Applications are received at any time for starting dates of
approximately August 1, however, for full consideration for IPIBS
fellowships, applications should be received by December 1 of the
prior calendar year. All credentials and/or communications should
be submitted to the School of Interdisciplinary and Graduate Studies,
Graduate Admissions and should contain the student's full name and
Social Security Number or University of Louisville issued student ID.
Lack of Social Security Number may cause processing to be delayed.
Admission on a conditional basis is a possibility in rare, special
cases, even though application materials are incomplete. Please contact (phlxapps@louisville.edu) the department for additional
information.

2. Application Fee. An application will not be forwarded to the
department until this fee is paid. A check or money order should be
made payable to the "University of Louisville."

3. Transcripts. Applicants for admission to a degree program must
submit an official transcript from each college attended. All University
of Louisville transcripts will automatically be submitted with
completion of an application. All applications are considered on
an individual basis. Normally, a successful applicant will have an
undergraduate GPA of 3.00 or higher and will have successfully
completed sufficient coursework in biology, chemistry and
mathematics.

4. Test Scores. Applicants normally must take the general section
of the Graduate Record Examination (GRE). There is no absolute cutoff
score for acceptance. However, competitive applicants usually score
above the 50th percentile. Each case is decided on the totality of its
merits. At the discretion of the department, MCAT or other entrance
examination scores may be accepted in place of the GRE. Information
can be obtained from:
• University of Louisville Testing Center, or
• Graduate Record Examination Educational Testing Service Box
  955 Princeton, NJ 08541, or
• www.gre.org (http://www.gre.org)
  The GRE Advanced Test in a discipline is not required, but if
available will be used in admissions and placement decisions.
Note: GRE Institution Code is R1838-University of Louisville. The
GRE major codes are 0216 - Pharmacology or 0219 - Toxicology.

5. Statement of Experience and Professional Goals. At the time of
application, a two to three page typed statement should be sent to
introduce the student to the faculty of the Department, describing
past educational, laboratory and relevant life experiences, as well as
outlining professional goals after the degree program. This statement
can be sent electronically to gradadm@louisville.edu or via mail to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
Houchens Bldg, Suite 105
University of Louisville
Louisville, KY 40292
United States of America

6. English Proficiency. All applicants for whom English is a second
language must also submit official TOEFL scores of 79 or higher on
the internet-based test or 550 or higher on the paper-based test for
verification of English proficiency. Students holding a bachelor's or
advanced degree from an accredited institution in the United States
are exempt from this requirement. Information concerning the TOEFL
exam can be obtained from: University Testing Center, or Test of
English as a Foreign Language PO Box 6151 Princeton, NJ 08541 USA
or toefl.org (http://www.toefl.org) The institutional code of UofL for
TOEFL is 1838. The TOEFL department code is 30 (other biological
sciences.)

7. Personal Interview. Whenever possible, a personal interview, either in
person or via telephone will be held before final offer and acceptance of
a position in the PhD program.

8. Letters of Recommendation. Three (3) letters of recommendation
from persons familiar with the applicant's research and/or academic
work are required. These recommendations will ideally include a
letter attached to the recommendation form or may be completed
electronically via the online application (http://louisville.edu/
graduate/apply).

9. International Student Applicants. In addition to satisfying the
appropriate credential requirements, applicants may be required to
provide the following documents.
• Applicants who attended college outside the US must submit
  verbatim notarized English translations of all academic records
  and credentials.
• Transcripts must be evaluated by a credential evaluation
  service such as World Education Services (wes.org (http://
  www.wes.org)) or Educational Credential Evaluators (ece.org
  (http://www.ece.org)) for admission.
• If on a Visa that requires an I-20 or IAP-66, the applicant is
  required to complete an Application Supplement/Financial
  Declaration form (louisville.edu/internationalcenter/isss/current-
  f1-j1-students/forms-and-documents) and submit appropriate
  financial documentation.

10. Financial Aid. All applicants to the PhD program of the Department
of Pharmacology and Toxicology are automatically considered
for financial aid upon admission. Typically, such aid consists of a
stipend, tuition remission, and a health insurance benefit.

11. Residency Policy. Residency status for students is determined by
the School of Interdisciplinary and Graduate Studies, Graduate
Admissions. The status is determined according to the policy on
classification of students for fee assessment purposes at state-
supported institutions of higher education. Except as provided in the
guidelines, it is presumed that a resident has remained in the state in
a non-student status for the twelve months immediately preceding
the last date for enrollment in the institution.

The domicile of an unmarried person, as defined in the guidelines,
is that of his/her parent. The domicile of a married person is determined
by the provisions of the guidelines independent of the residence of the
spouse. Copies of the guidelines and appropriate forms for requesting
a change of residence classification may be obtained from the Office of
Student Services.

Indiana Tuition Reciprocity
The University of Louisville is participating in an Indiana Tuition
Reciprocity Program for residents of Clark, Floyd, Harrison or Scott Counties who have been admitted directly into an approved
graduate program. Eligible participants are required to notify the
Admissions Office prior to their first enrollment and the Registrar's Office
after their first enrollment of any changes in residency status. [e.g. if they
no longer live in one of the eligible counties, or are no longer in an eligible
program.] The University reserves the right to further investigate and
require documentation of eligibility for tuition reciprocity.

For Military Personnel
If an applicant, spouse or parent (if dependent) is currently stationed in
Kentucky on military active duty for one or more years, please attach
a copy of the military orders, a lease or mortgage showing Kentucky
address and a military dependent identification card if appropriate. If the applicant is a Kentucky resident but has been in the military and has been recently discharged, please send a copy of the military discharge papers (DD-214).

International Students on Immigrant/ Permanent Resident Status
If currently on an immigrant/ permanent resident status, it will be necessary to submit a copy of an immigration/ permanent resident card, both sides, for review of possible residency classification for tuition purposes.

Program Requirements

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHTX 641 Pharmacology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHTX 643 Toxicology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOC 645 Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHZB 602 Physiological Concepts for General Life Sciences</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Co-curricular</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHTX 617 Laboratory Rotation Research</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PHTX 606 Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Written qualifying exam 1 (end of semester)</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHTX 642 Pharmacology II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHTX 644 Toxicology II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOC 667 Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Co-curricular</strong></td>
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<tr>
<td></td>
<td>PHTX 619 Research</td>
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<tr>
<td></td>
<td>PHTX 606 Seminar</td>
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</tr>
<tr>
<td></td>
<td>BIOC 630 Responsible Conduct of Research: Survival Skills and Research Ethics</td>
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<td></td>
<td>Written qualifying exam 2 (end of semester)</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Summer</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHTX 632 Analysis of Parametric &amp; Nonparametric Data</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHTX 619 Research</td>
<td>4</td>
</tr>
<tr>
<td>Hours</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHTX 625 Scientific Writing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Students may take 1-3 elective courses for enrichment</td>
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<tr>
<td></td>
<td><strong>Co-curricular</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHTX 619 Research</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHTX 606 Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Written qualifying exam 3 (end of semester)</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students may take 1-3 elective courses for enrichment (Master’s Candidacy)</td>
<td>0-9</td>
</tr>
<tr>
<td></td>
<td><strong>Co-curricular</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Submission, presentation, and defense of PhD proposal (NIH grant format) and MS thesis.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Awarding of MS degree and transition to PhD candidacy.</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>
Specific requirements for the MS degree in Physics are as follows:

**Program Requirements**

- Mathematics course work through differential equations. (MATH 405 or equivalent).
- Submission of the (general) Graduate Record Examination scores.

For general information concerning admission to the graduate programs at the University of Louisville consult the application directions at louisville.edu/graduate/apply.

**Program Admission Procedure**

Admission into the Physics MS program is competitive. The application procedure is as follows:

- Submit a completed graduate application to the University of Louisville School of Interdisciplinary and Graduate Studies, Graduate Admissions together with the required application fee. Applications may be submitted online at louisville.edu/graduate/apply. Admitted students are most commonly accepted to begin their program of studies in the Fall semester (which starts in late August). However, programs beginning in the Spring semester (which begins in early January) can be arranged. There is no formal application deadline, but to ensure full consideration for Fall entry applications should be received no later than February 1.

- Official transcripts from each university or college attended must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions.

- Take the general section of the Graduate Record Examination and arrange for the official score to be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions.

- Arrange for at least two letters of recommendation to be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. These letters should be written by persons familiar with the applicant's academic work. Please use the recommendation form found at louisville.edu/graduate/apply or complete the relevant section in the online application so that your letter writers will receive an email request to submit their recommendation electronically.

- All applicants, whose native language is not English, are required to achieve a TOEFL score greater than 79 on the internet-based test. Students holding a bachelor's degree from an accredited institution in the United States are exempt from this requirement.

In individual cases, the department may recommend conditional admission of a student who does not satisfactorily meet the above requirements. If admission is granted, that student will be subject to those conditions specified by the Department of Physics and Astronomy, the College of Arts and Sciences and the School of Interdisciplinary and Graduate Studies as being necessary to remedy the conditional admission.

**Thesis Option**

Specific requirements for the MS degree in Physics are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 605</td>
<td>Theoretical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 611</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 621</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 622</td>
<td>Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>Physics Electives</td>
<td></td>
<td>6-9</td>
</tr>
<tr>
<td>Courses in one minor field</td>
<td></td>
<td>3-9</td>
</tr>
<tr>
<td>PHYS 699</td>
<td>Research</td>
<td></td>
</tr>
</tbody>
</table>

At least 21 credit hours must be at the 600 level or above. Minimum Total Credit Hours: 30

1 Courses numbered 500 or above. Courses at 500 level or above which are required for the BA/BS degree will not normally satisfy this requirement.

2 Mathematics is the usual minor, but another field may be chosen with the approval of the department.

**Non-Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 605</td>
<td>Theoretical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 611</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 621</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 622</td>
<td>Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>Physics Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Courses in one minor field</td>
<td></td>
<td>3-9</td>
</tr>
<tr>
<td>PHYS 699</td>
<td>Research</td>
<td></td>
</tr>
</tbody>
</table>

At least 17 credit hours must be at the 600 level or above. Minimum Total Credit Hours: 33

1 Courses numbered 500 or above. Courses at 500 level or above which are required for the BA/BS degree will not normally satisfy this requirement.

2 Mathematics is the usual minor, but another field may be chosen with the approval of the department.

**BS/MS Accelerated Program**

The non-physics undergraduate requirements of this degree are identical to the standard BS in Physics.

Undergraduate physics requirements are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound - S</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II - SL</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 390</td>
<td>Introductory Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 450</td>
<td>Introductory Mathematical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 541</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 555</td>
<td>Elementary Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 498</td>
<td>Undergraduate Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 32

Graduate requirements for the five-year BS/MS program are identical to the standard MS program (thesis and non-thesis option) except that the physics electives must include PHYS 542 and PHYS 556.
Physics (PhD)

Doctor of Philosophy in Physics (PHYSPHD)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences/intro) (GA)
Department/Program: Physics (http://www.physics.louisville.edu)

Program Information
Mission Statement
The Doctor of Philosophy degree in Physics will prepare students for research-oriented careers in government, industry, and academia.

General Information
The PhD is typically a five-year degree program available to qualified individuals possessing a bachelor's degree in Physics from an accredited college or university. Students with a bachelor's degree in other related subjects—e.g. Mathematics, Chemistry and Engineering—also will be considered.

The first two years of the program are very similar to the non-thesis MS program. Under normal circumstances, PhD students will meet the requirements for the MS degree after two years of study. The remaining three years will be dedicated primarily to research leading to the required dissertation.

Graduate Assistantships
For the first two years of the program, qualified students will be considered for Graduate Teaching Assistantships (GTAs). As part of the educational experience, GTAs perform certain undergraduate teaching responsibilities in exchange for a stipend and full tuition remission. In most cases, support for the remaining three years of study is via Graduate Research Assistantships (GRAs) provided by extramural faculty research funding.

Admission Requirements
Departmental requirements for admission are as follows:

- A baccalaureate degree with at least 24 credit hours in Physics, or the equivalent.
- A minimum quality-point standing of 3.0 (base 4.0) in physics courses.
- Mathematics coursework through differential equations. (MATH 405 or equivalent).
- Submission of the (general) Graduate Record Examination (general) scores. The Physics subject GRE is preferred, but not required.

For general information concerning admission to graduate programs at the University of Louisville consult the application directions at louisville.edu/graduate/apply.

Program Admission Procedure
Admission into the Physics PhD program is competitive. The application procedure is as follows:

- Submit a completed graduate application to the University of Louisville, School of Interdisciplinary and Graduate Studies, Graduate Admissions together with the relevant application fee. Applications may be submitted online at louisville.edu/graduate/apply. Admitted students are most commonly accepted to begin their program of studies in the Fall semester (which starts in late August). However, programs beginning in the Spring semester (which begins in early January) can be arranged.

There is no formal application deadline, but to ensure full consideration for Fall entry applications should be received no later than February 1.

- Official transcripts from each university or college attended must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions.
- Take the general section of the Graduate Record Examination and arrange for the official score to be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions (the Physics subject GRE is recommended, but not required).
- Arrange for at least two letters of recommendation to be sent to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. Persons familiar with the applicant’s academic work should write these letters. Please use the recommendation form found at louisville.edu/graduate/apply or complete the relevant section in the online application so that your letter writers will receive an email request to submit their recommendation electronically.

- All applicants whose native language is not English are required to achieve a TOEFL score greater than 79 on the internet-based test. Students holding a bachelor’s degree from an accredited institution in the United States are exempt from this requirement.

In individual cases, the department may recommend conditional admission of a student who does not satisfactorily meet the above requirements. If admission is granted, that student will be subject to those conditions specified by the Department of Physics and Astronomy, the College of Arts and Sciences and the School of Interdisciplinary and Graduate Studies as being necessary to remedy the conditional admission.

Program Requirements
General requirements for the PhD degree are set forth in the Degree Requirements (p. 804) section of the graduate catalog. Specific requirements for the PhD degree in physics are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 561</td>
<td>Mathematical Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 605</td>
<td>Theoretical Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 611</td>
<td>Electromagnetic Theory I</td>
<td></td>
</tr>
<tr>
<td>PHYS 621</td>
<td>Quantum Mechanics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 622</td>
<td>Quantum Mechanics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 625</td>
<td>Statistical Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 650</td>
<td>Research Methods in Physics &amp; Astronomy</td>
<td></td>
</tr>
</tbody>
</table>

Electives 1 9
Dissertation 6
PHYS 699 Research

Minimum Total Hours 36

1 Each student is required to take nine (9) credit hours of elective courses. Courses outside the department are acceptable if approved by the student’s thesis advisor and the department Graduate Program Director.
Qualifying Examination
In order to demonstrate proficiency in knowledge of Physics and the ability to apply that knowledge, students will be required to pass a qualifying exam. The qualifying exam will have a written and oral component.

Written Component
To satisfy the written component, the student will take a written exam composed of members of the faculty of the department. The exam will cover basic and intermediate problems in the areas of mechanics, electricity and magnetism, quantum mechanics, thermal physics, and special topics in contemporary physics. It will be administered twice yearly with advance notice, typically in September and January. Students are required to pass all areas of the exam. For full-time students, this must normally be achieved by the end of their fourth semester and in all cases by the end of their sixth semester. Special arrangements may be made for part-time students. A total of four attempts at the exam will be permitted. Once a subject area part of the exam is passed, that part does not need to be retaken. Under certain circumstances, in order to confirm their familiarity with a particular subject, a student may be extended the opportunity to take an oral examination in that subject.

Oral Component
To satisfy the oral component the student must pass an oral exam, in the form of a presentation to the PhD committee of his or her proposed research. The student is expected to take the exam before the end of their sixth semester as a graduate student. The test may be taken at most two times and must be passed by the end of the sixth semester.

Candidacy
Having passed both parts of the qualifying examination the student will register for degree candidacy and continue with their dissertation research.

Dissertation
A doctoral dissertation is required of each student.

Physiology (MS)

Master of Science in Physiology and Biophysics (PHZBMS)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department/Program Webpage (https://louisville.edu/medschool/physiology)

Program Information

General Procedures and Requirements for the Degree of Master of Science in the Department of Physiology

Program Overview and Objectives
The Department of Physiology is located in the Health Sciences Center of the University of Louisville which provides our graduate students with an active and intellectually stimulating environment. Our Graduate Program offers a Master of Science degree to provide several career options:

1. To develop competence in directed research for advanced technical positions in industry, government, and university medical research laboratories;
2. To prepare students with a good general knowledge of human physiology to enable them to communicate physiological concepts to future students; and
3. To explore the possibility of a future career as an independent scientist in medically-related research.
4. To enhance student credentials for admission to and performance in professional health care programs.

Minimal Requirements for the Master’s Degree
The typical Master of Science (MS) Graduate Program includes a directed research emphasis and consists of thirty (30) credit hours typically over a twelve-month period (3 semesters) to include the following: 18 credit hours of basic medical sciences coursework and at least 12 credit hours of electives.

Advisor Selection
The Director of Graduate Studies will meet with the new student to discuss the academic and research interests. The Director of Graduate Studies will serve as a Temporary Advisor until a Permanent Advisor is selected.

During the first semester of their graduate study, beginning graduate students will visit research laboratories in which they have an interest. First-year students must select a principal advisor. The selection process involves approval by the student, the Principal Advisor, the Director of Graduate Studies, and the Department Chair.

Admission Requirements
The University of Louisville graduate catalog gives a general description of admission procedures. Application information can be found on the School of Interdisciplinary and Graduate Studies website (louisville.edu/graduate/apply). The following application items must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions at the University of Louisville:

1. One official transcript of the applicant’s previous work for each college or university that has been previously attended
2. Two letters of recommendation from people who are well acquainted with the applicant’s previous academic work.
3. Applicants must forward scores from the Analytical, Verbal and Quantitative portions of the Graduate Record Examination (GRE). Satisfactory MCAT, DAT, OAT or similar test scores may also be accepted in lieu of the GRE.
4. TOEFL Examination scores for foreign students from non-English speaking countries.
5. A non-refundable application fee to the University of Louisville.

Applicants must state in a letter to the Department but submitted to the School of Interdisciplinary and Graduate Studies (referred to as the Personal Statement in the application materials), why they desire a MS degree in this Department of Physiology.

Successful applicants generally demonstrate the following:

1. A cumulative undergraduate grade point average that is usually 2.80 or higher on a scale of 4.00 (A=4, B=3, etc.)
2. A Graduate Record Examination Score which usually averages at the 40th percentile or higher in the verbal, quantitative and analytical sections. Satisfactory MCAT scores will also be accepted in lieu of the GRE.

In the case of a foreign applicant from a non-English speaking country, the applicant must achieve a TOEFL Examination score >85 on the internet exam.
Procedures for Determining Admissions

Two committees will control student admission into the Department Graduate Programs: The Graduate Program Executive Committee (GPEC) and the Graduate Admission Committee (GAC). The GPEC will recommend students to be interviewed based upon a dossier of information obtained from the School of Interdisciplinary and Graduate Studies, Graduate Admissions. The GAC will conduct student interviews and vote on admission as representatives of the entire faculty of the Department.

Structure of Admission Committees
The GPEC will consist of the Director of Graduate Admissions, the Director of Graduate Studies, and one other Departmental faculty member, all of whom are appointed by the Departmental Chair for staggered five-year terms.

The GAC will be composed of three tenured or tenure-track Department faculty members and members of GPEC, for a total membership of six. The full-time faculty of the Department will elect the three faculty representatives to GAC for staggered three-year terms.

Functions of the Admission Committees
The GPEC evaluates all requests for admission into the Program. The Director of Admissions will create a dossier of information on applicants that complete the application process. This dossier will be derived from PeopleSoft and OnBase databases. A completed applicant dossier (i.e., all application material) will be submitted to GPEC for evaluation. The GPEC will determine if an applicant should be voted on by the entire admissions committee, interviewed prior to determination of a vote, or not eligible for the program.

Student admission will require a simple majority recommendation from GAC. The recommendation of GAC is forwarded to the Director of Graduate Admissions. Completion of the admission process is accomplished by submission of a Referral Form to SIGS and delivery of the GPEC Report and complete dossier on admitted students to the Departmental Office. The Referral Form will initiate an acceptance or denial letter to the student. The GPEC Report and the complete dossier becomes the Department File on the admitted student and are transferred to the Director of Graduate Studies.

When an applicant is accepted into the Department Graduate Program, the Department Chair will send a letter of acceptance. The prospective student will be required to provide a letter indicating their acceptance of admission to the Department Graduate Program.

Program Requirements
At least 30 credit hours beyond the Baccalaureate Degree are required for the degree of Master of Science. A maximum of 6 credit hours may be credited from post-baccalaureate work in other professional or graduate degree programs.

Minimum Course Requirements
The typical MS program must include the following courses taken on a grade basis:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHZB 605</td>
<td>Systemic Physiology I</td>
<td>10</td>
</tr>
<tr>
<td>PHZB 606 &amp; PHZB 607</td>
<td>Systemic Physiology II</td>
<td></td>
</tr>
<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives
All electives must be graduate levels courses.

Electives may include but are not limited to:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHZB 625</td>
<td>Experimental Physiology Methods</td>
<td>1</td>
</tr>
<tr>
<td>PHZB 617</td>
<td>Seminar in Physiology and Biophysics</td>
<td>1</td>
</tr>
<tr>
<td>PHZB 619</td>
<td>Research</td>
<td>1-20</td>
</tr>
<tr>
<td>Mbio 601</td>
<td>Molecular Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>Mbio 602</td>
<td>Immunology</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Potential Graduate Elective Course Areas:

- Communications
- Sociology
- Psychology
- Biostatistics
- Public Health
- Pharmacology
- Oral Biology

Physiology (PhD)

Doctor of Philosophy in Physiology and Biophysics (PHZBPHD)
Unit: School of Medicine (http://louisville.edu/medicine) (GM)
Department/Program Webpage (https://louisville.edu/medicine/ departments/physiology)

Program Information
Program Overview and Objectives
The Department of Physiology is located in the Health Sciences Center of the University of Louisville, which provides an active and intellectually stimulating environment and a wide variety of course options. The graduate program permits studies in related disciplines, such as anatomy,
Admission to the PhD program in the Department of Physiology requires:

- A genuine interest in graduate work and the desire for a significant independent research career in the health sciences
- A cumulative undergraduate grade point average that is usually 3.00 or higher on a scale of 4.00
- A graduate record exam score (or equivalent) which is usually 50th percentile or higher as an average of the verbal, quantitative, and analytical sections; verbal + quantitative combined score above 1000 is required for admission to School of Medicine graduate programs
- International students for whom English is not their primary language must show English language proficiency by demonstration of proficiency on the TOEFL examination (defined as 213 or higher on the computer-based test; >85 on the internet exam) or by successfully completing the exit examination for the advanced level of the Intensive English as a Second Language Program at the University of Louisville or by demonstration of a degree award from an acceptable English language institution

Admission Procedures

The Department attempts to hold a personal interview with all qualified applicants. Typically, this interview will be with two to four Department faculty members. If the applicant cannot come for an interview, then consideration of the application without the interview or, in some cases, a telephone interview will be conducted.

Two committees will control student admission into the Department Graduate Programs: The Graduate Program Executive Committee (GPEC) and the Graduate Admission Committee (GAC). The GPEC will recommend students to be interviewed based upon a dossier of information obtained from the Admission Office of the School of Interdisciplinary and Graduate Studies (SIGS). The GAC will conduct the personal interview with the student and recommend students to be interviewed based upon a dossier of information obtained from the Admission Office of the School of Interdisciplinary and Graduate Studies (SIGS). The GAC will conduct
student interviews and vote on admission as representatives of the entire faculty of the Department

Structure of Admission Committees
The GPEC will consist of the Director of Graduate Admissions, the Director of Graduate Studies, and one other Departmental faculty member, all of whom are appointed by the Department Chair for staggered five-year terms.

The GAC will be composed of three tenured or tenure-track Department faculty members and members of GPEC, for a total membership of six. The full-time faculty of the Department will elect the three faculty representatives to GAC for staggered three-year terms.

Functions of the Admission Committees
The GPEC evaluates all requests for admission into the Program. The Director of Admissions will create a dossier of information on applicants that complete the application process. This dossier will be derived from PeopleSoft and OnBase databases. A completed applicant dossier (i.e., all application material indicated above) will be submitted to GPEC for evaluation. The GPEC will determine if the student’s qualifications warrant a Departmental interview. If a simple majority of GPEC support further consideration of the applicant, interviews will be arranged by the Director of Graduate Admissions. The applicant will be interviewed by:

• At least one member of the GPEC
• The Department Chair or the Chair’s designated representative
• Two to three members of the GAC.

If the applicant cannot come for an interview, then consideration of the application will proceed without the interview, or in some cases, by telephone interview.

The Director of Graduate Admissions will create a summary of the applicant’s academic background and interview results (i.e., the GPEC Report). This document and the complete dossier will serve as a basis for admission or denial. The GAC considers the GPEC Report and complete dossier and votes on the admissibility of each applicant. Student admission will require a simple majority recommendation from GAC. The recommendation of GAC is forwarded to the Director of Graduate Admissions. Completion of the admission process is accomplished by submission of a Referral Form to SIGS and delivery of the GPEC Report and a complete dossier on admitted students to the Departmental Office. The Referral Form will initiate an acceptance or denial letter to the student. The GPEC Report and the complete dossier becomes the Department File on the admitted student and are transferred to the Director of Graduate Studies.

When an applicant is accepted into the Department Graduate Program, The Department Chair will send a letter of acceptance. The prospective student must provide a letter indicating their acceptance of admission to the Department Graduate Program. The Department will submit credentials to the Graduate Affairs for approval by the Associate Dean of Graduate and Postdoctoral Studies.

Program Requirements
Minimum Course Requirements
The University of Louisville PhD degree does not require a specific number of hours of academic credit. However, the Department requires that a minimum of two consecutive semesters (9 credit hours in the Fall or Spring semesters and/or 6 credit hours in the Summer) to be taken to fulfill the full time one-year doctoral residency requirement at the University of Louisville. With the approval of the Dean of the School of Medicine (or his/her designee), a maximum of 12 credit hours of this requirement may be credited for post-baccalaureate work from other professional or graduate degree programs.

By the end of the Program, the student also must demonstrate the ability to conduct independent research.

The required program of academic studies must include (if not completed with a grade of B or better prior to admission to the Department) the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHZB 605</td>
<td>Systemic Physiology I</td>
<td>10</td>
</tr>
<tr>
<td>PHZB 606</td>
<td>Systemic Physiology II (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>BIOC 645/647</td>
<td>Advanced Biochemistry I (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>PHZB 611</td>
<td>Advanced Human Cardiovascular Physiology (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>PHZB 609</td>
<td>Integrated Systemic Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PHZB 617</td>
<td>Seminar in Physiology and Biophysics (two semesters)</td>
<td>1</td>
</tr>
<tr>
<td>PHZB 616</td>
<td>Selected Topics in Physiology and Biophysics (or equivalent)</td>
<td>6</td>
</tr>
<tr>
<td>PHZB 625</td>
<td>Experimental Physiology Methods</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 630</td>
<td>Responsible Conduct of Research: Survival Skills and Research Ethics</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 32

A student must have at least a 3.00 accumulated GPA (on a 4.0 scale) in order to take the PhD Qualifying Examination and to qualify for the PhD degree. In general, a student with a GPA of less than 3.00 after two consecutive semesters (excluding summer sessions) will require a two-thirds majority vote of the Departmental faculty to continue in the PhD Program. The student must not have received more than 6 credit hours of a grade of C in required courses.

For Departmental purposes, passing grades in pass/fail graded courses will not be included in the GPA calculation; however, a failing grade in a pass/fail graded course will be included in the GPA calculation at zero quality points per credit hour. Students will not be allowed to graduate with failing grades on their transcript.

Minimum Requirements for the Doctor of Philosophy Degree in Physiology and Biophysics
The PhD degree is designed for the student who wishes a professional life that involves original, independent research and who desires knowledge that will permit competent advanced teaching in a physiology area. The PhD degree requires that the student reach a high level of creativity and expertise. Therefore, mere completion of a prescribed number of courses is not adequate for receipt of the doctoral degree. All PhD students are expected to make steady and satisfactory progress toward the completion of the degree.

To document the satisfactory progress of the PhD students, each Advisory Committee must hold at least two mandatory, semi-annual meetings and report on the student’s progress (presentations,
The PhD Qualifying Examination

Before the PhD Qualifying Examination may be taken, the student must have completed the Minimum Course Requirements listed above with a GPA of at least a 3.0. It would normally be expected that the student would take the PhD Qualifying Examination by the end of five semesters of graduate studies. If the student has not taken the PhD Qualifying Examination by the end of the second year, a letter of justification for the delay must be submitted by the Principal Advisor to the Department Chair.

A PhD Qualifying Examination must be passed by the applicant in order to be admitted to PhD candidacy. The Qualifying Examination Committee will be comprised of members of the student’s Advisory Committee. The membership must be approved by the Director of Graduate Studies and the Department Chair. A passing recommendation shall not involve more than one negative vote of this Committee. If the student does not pass the Qualifying Examination, one additional retake will be allowed if approved by a majority vote of the Departmental faculty.

The purpose of the PhD Qualifying Examination is to test the student's independent use and depth of core physiology through its application to the student proposed research. This examination shall consist of a written research proposal outlining the dissertation research and an oral examination of the student’s depth of current understanding of the basic physiological concepts underlying the proposed research. The student will receive the Master of Science Degree in Physiology and Biophysics, upon satisfactory completion of the Qualifying Exam.

Maintenance of Graduate Status

A candidate for the PhD degree who has completed all residency requirements, all of the approved required program of academic studies, and passed the Qualifying Examination may register for DOCT 600 Doctoral Candidacy to maintain doctoral candidacy until the degree is awarded. Continuous registration in this status is required. Semiannual progress meetings will continue to be expected. To complete the PhD degree, the student must continue to make satisfactory progress during the candidacy period. In order to be eligible to receive the PhD degree, the student must have been admitted to candidacy and registered for doctoral candidacy for the two consecutive semesters prior to the awarding of the degree.

Dissertation

The dissertation shall represent a scholarly achievement which embodies results of independent research and which demonstrates a thorough understanding of research concepts in the field of inquiry. The completed dissertation must be in the appropriate format as required by the School of Interdisciplinary and Graduate Studies and must be approved by a Dissertation Reading Committee (the Candidate’s Advisory Committee). Then, at least two weeks before the scheduled dissertation defense and at least 30 days before the expected date of graduation, the dissertation shall be submitted to the Dissertation Defense Committee. The Dissertation Defense Committee, selected by the Principal Advisor, must have been approved previously by the Director of Graduate Studies, the Department Chair, and by the Dean of School of Medicine (or his designee) (see section IIC). The accepted dissertation, must be submitted electronically, one signed signature page signed by the Dissertation Defense Committee, must be deposited with the School of Interdisciplinary and Graduate Studies by the published deadline (louisville.edu/graduate/current-students/thesis-dissertation-information) and one copy must be given to the Department Chair before graduation. The copy for the Department Chair may be electronic.

Dissertation Defense

The dissertation defense is an oral defense of the dissertation and a demonstration of mastery of the candidate's research field. The defense is administered by the Dissertation Defense Committee. The defense of the dissertation is a public examination and the School of Interdisciplinary and Graduate Studies will notify all faculty members that they are invited to the Dissertation Defense, but only members of the Dissertation Defense Committee will vote on the student’s performance. For the student to pass the Dissertation Defense, the vote of the Dissertation Defense Committee may not include more than one negative vote. The Dissertation Defense must take place at least 14 days before the end of the semester in which the degree is anticipated.

The Department will not approve the granting of the PhD degree until the student has submitted at least one first-authored manuscript on the dissertation research and one co-authored manuscript for publication in a refereed journal. The manuscript and the choice of a journal must be approved by the Principal Advisor before manuscript submission.

In any case, where the Departmental requirements are less restrictive than those described in the School of Medicine Minimal Guidelines for Graduate Education, the School of Medicine guidelines will apply.

Exceptions

1. The above are statements of minimum Departmental requirements. However, it is recognized that there could be special and unusual cases in which rare exceptions should be allowed. The student and advisor should consult with the Department Chair if an exception is desired.

2. In the above guidelines, the Director of Graduate Studies has considerable responsibility for program quality. To avoid any possibility of a potential conflict of interest, the Department Chair (or designee) will fulfill the role of Director of Graduate Studies for any PhD or MS student who has the Director of Graduate Studies as their Principal Advisor.

Typical Doctoral Programs

Traditional Doctoral Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Year 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fall</td>
</tr>
<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PHZB 605</td>
<td>Systemic Physiology I</td>
<td>5</td>
</tr>
<tr>
<td>PHZB 617</td>
<td>Seminar in Physiology and Biophysics</td>
<td>1</td>
</tr>
<tr>
<td>PHZB 619</td>
<td>Research</td>
<td>1</td>
</tr>
<tr>
<td>PHZB 625</td>
<td>Experimental Physiology Methods</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Spring</td>
</tr>
<tr>
<td>BIOC 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHZB 606</td>
<td>Systemic Physiology II</td>
<td>5</td>
</tr>
<tr>
<td>PHZB 617</td>
<td>Seminar in Physiology and Biophysics</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
</tbody>
</table>
Dissertation Defense: If more research/dissertation time is needed, the clinician will continue to register as DOCT 600 until completed, and dissertation defended.

**Police Executive Leadership Development (CERT)**

Graduate Certificate in Police Executive Leadership Development (CPELCPL)

Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)

Department: Criminal Justice (http://louisville.edu/justice)

Program Webpage (https://louisville.edu/spi)

**Program Information**

The Southern Police Institute is a division of the Department of Criminal Justice (https://louisville.edu/justice), College of Arts and Sciences (http://louisville.edu/artsandsciences), University of Louisville. It is an advanced education and training institute whose mission is to enhance the professional development of law enforcement practitioners. We accomplish this mission by providing educational and career development programs that are designed to challenge and to prepare law enforcement practitioners for the demands of today and tomorrow. The Southern Police Institute consistently is ranked among the top law enforcement educational and training schools in the nation.

Since the creation of the Southern Police Institute in 1951, its program of instruction has been grounded in the belief that law enforcement is a demanding activity requiring the highest level of professional preparation. The Southern Police Institute was established by its founders to provide a place where that preparation can be undertaken. The present faculty
and staff dedicate themselves to this mission and continue to maintain the standards of excellence established by our founders. They are uniquely qualified as researchers, consultants, teachers, and former law enforcement practitioners to guide and to direct the educational needs of today’s law enforcement professionals.

**Admission Requirements**

Applicants must meet the standards for conditional admission to the Master of Science in Criminal Justice, including an earned bachelor’s degree and appropriate letters of recommendation. They must also achieve a qualifying score on the Southern Police Institute’s admission examination and be recommended by the Chief Executive Officer of their supporting agency. Applications are reviewed for eligibility by the Southern Police Institute’s faculty who are members of the University’s Graduate Faculty and the Department of Criminal Justice.

The curriculum of the Administrative Officers Course (AOC) of the Southern Police Institute may be taken only by students regularly enrolled in the Institute.

**Program Requirements**

The curriculum of the Administrative Officers Course (AOC) of the Southern Police Institute may be taken only by students regularly enrolled in the Institute.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 576</td>
<td>Managing Organizational Performance</td>
<td>3</td>
</tr>
<tr>
<td>CJ 578</td>
<td>Criminal Justice Leadership - WR</td>
<td>3</td>
</tr>
<tr>
<td>CJ 612</td>
<td>Criminal Justice Administration: Police</td>
<td>3</td>
</tr>
<tr>
<td>CJ 625</td>
<td>Legal Aspects of Criminal Justice Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

The Southern Police Institute offers (two) twelve-week courses annually.

**Political Science (MA)**

The MA is designed to allow a student to pursue a degree either full or part time. Most graduate-level courses are offered in the evening. The MA is oriented toward those who wish to pursue advanced training in political science or a position in the public, private, or non-profit sector.

**Accelerated BA-BS/MA**

The Department of Political Science also offers its undergraduate majors an opportunity to earn both a BA (or BS) degree and an MA degree at an accelerated pace. This program allows students to complete one semester (9 credit hours) of graduate coursework while enrolled as undergraduate students. Typically, students finish their MA degrees within three semesters of completing their undergraduate degrees.

Applicants must meet the general requirements for admission to the School of Interdisciplinary and Graduate Studies and must submit an application to the Department of Political Science. Applicants should have an undergraduate major or minor in social science or have sufficient alternative preparation in the social sciences.

**Joint MA/JD Program**

The Department of Political Science offers a joint MA/JD program in partnership with the Brandeis School of Law. This program allows the student to obtain the MA and JD degrees in a four-year course of study. For additional information, see the law school website (http://louisville.edu/law/academics/degree-programs/dual-degree-programs).

**Admission Requirements**

Admission into the MA program is competitive. The procedures for admission into the MA program are as follows:

1. Submit a completed graduate application and application fee to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. Application for admission must be made by July 15 for the Fall semester and November 15 for the Spring semester.
2. Forward official transcripts verifying the receipt of a baccalaureate degree from an accredited institution to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. An applicant must hold a BA or BS (or foreign equivalent) before admission to the program can be granted. Applicants selected for the program have generally earned a 3.0 undergraduate GPA overall or a 3.2 undergraduate GPA in the last 60 credit hours or the equivalent.
3. Send scores from the Graduate Records Examination (GRE) to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. The GRE is designed to measure general aptitude for graduate study. Successful applicants selected for the program generally present a Verbal score of at least 153, a Quantitative score of at least 144, and an Analytical score of at least 4.0.
4. Provide two letters of recommendation from individuals familiar with the applicant’s academic performance. Professional letters from employers are acceptable only when a substantial time has elapsed since the applicant has attended an academic institution.
5. A written personal statement is required. This statement should detail the applicant’s educational and professional experiences and goals and relate these goals to the pursuit of graduate study in political science at the University of Louisville. The statement should be approximately 400-500 words in length.
6. International applicants are required to take the TOEFL examination if English is not the native language. Applicants who have not scored 550 or higher on the TOEFL may choose to apply to the
Students are encouraged to take advantage of the unique strengths of the Department of Political Science when planning their course of study. In particular, the Department enjoys strong complements of faculty in three areas: International Studies, American Politics, and Digital Politics.

The International Studies field includes the comparative study of various regions and nations throughout the world as well as the study of relations among nations and other global actors. Areas of faculty expertise include the politics of Africa, Latin America, the Middle East, East Asia, Europe, and the former Soviet Union, development, political economy, revolution, leadership, environment, civil-military relations, foreign policy, defense and security, international organizations, and international law.

The American Politics field includes the study of the American governmental institutions that formulate public policy and the study of the administration of public policy. Areas of faculty expertise include the presidency, Congress, the judiciary, federalism, public administration, public law, the electoral process, social policy, housing policy, urban policy, environmental policy, and economic development policy.

The Digital Politics field focuses on the intersection of information technology and politics and includes an applied component, providing students with training and experiences useful to their career pursuits. Areas of study include e-government initiatives, social media advocacy and narrative strategies for non-profit organizations, and online political campaigns.

Students may select from one of three options for their graduate studies: 1) the general MA in Political Science (thesis), 2) the general MA in Political Science (non-thesis), or 3) the MA in Political Science with a concentration in Digital Politics (non-thesis). The curriculum for these options is described below.

### Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 670</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>POLS 671</td>
<td>Introduction to Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POLS 619</td>
<td>Seminar in Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 629</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 639</td>
<td>Seminar in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 649</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>Electives *</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>POLS 699</td>
<td>Thesis Guidance</td>
<td>6</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 30

* From Political Science or other departments. Up to 6 elective credit hours may be at the 500-level. Up to 3 credit hours may be independent study.

### Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 670</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>POLS 671</td>
<td>Introduction to Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POLS 619</td>
<td>Seminar in Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 629</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 639</td>
<td>Seminar in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 649</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>Electives **</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>POLS 695</td>
<td>Directed Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 36

** From Political Science and other departments. Up to 6 elective credit hours may be taken outside of Political Science. Up to 9 elective credit hours may be taken at the 500-level. Up to 3 credit hours may be independent study credit.

#### Non-Thesis Option with a Concentration in Digital Politics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 670</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>POLS 671</td>
<td>Introduction to Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POLS 619</td>
<td>Seminar in Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 629</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 639</td>
<td>Seminar in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 649</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>Digital Politics Courses ^</td>
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<td>9</td>
</tr>
<tr>
<td>POLS 507</td>
<td>Topics in Digital Politics (Public Policy)</td>
<td></td>
</tr>
<tr>
<td>POLS 507</td>
<td>Topics in Digital Politics (American Politics)</td>
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</tr>
<tr>
<td>POLS 507</td>
<td>Topics in Digital Politics (Global Politics)</td>
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<tr>
<td>Electives ²</td>
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</tr>
<tr>
<td>POLS 692</td>
<td>Independent Study II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 36

^ New course offerings in Digital Politics will first be offered under the POLS 507 designation before formal applications for new courses are submitted. Students may take POLS 507 more than once as long as the topic is different with each offering.

² Must be at the 600 level. Up to 3 credit hours may be independent study credit.

Intensive English as a Second Language (IESL) Program. Successful completion of this program or passing the Exit Examination in the advanced level of IESL will be considered adequate proof of the English proficiency required for course work in the MA program.

The Department may accept applicants who do not meet these requirements on a conditional basis if sufficient additional evidence of promise of success in the graduate program can be shown. No student will be admitted unconditionally until all materials listed above have been received.

You may apply to the School of Interdisciplinary and Graduate Studies, Graduate Admissions online at louisville.edu/graduate/apply.
Psychology - Clinical (PhD)

Doctor of Philosophy in Psychology - Clinical (CPSYPHD)
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/intro) (GA)
Program Webpage (http://louisville.edu/psychology/graduate/clinical)

Program Information

Mission Statement
The mission of the Clinical Psychology Doctoral Program at the University of Louisville is to produce scientist-practitioners who are:
• Competent to conduct and evaluate research;
• Competent in implementing research-supported practice;
• Ethical and professional in their relationships with clients, students, and colleagues; and
• Prepared to be professionals in a diverse world.

General Information
The Department of Psychological and Brain Sciences, in the College of Arts and Sciences, offers PhD programs in Experimental Psychology and Clinical Psychology. We do not offer any terminal master's degree programs in our department.

The Clinical Psychology PhD program usually requires four years of full-time coursework, research, and clinical activities. Each student must also complete a one-year approved internship. Students are required to complete a Master’s Research Portfolio. After completion of the Master’s Portfolio, students write the preliminary examination and then move on to dissertation work. A dissertation proposal must be defended before a student may apply for an internship.

Financial support for graduate students in the PhD program is available in the form of teaching and research assistantships, University Fellowships, and placements in community service settings.

Accreditation
The Clinical Psychology PhD program is fully accredited by the American Psychological Association, Office of Program Consultation and Accreditation:

Office of Program Consultation and Accreditation
750 First Street, NE
Washington, DC 20002-4242
Phone: (202) 336-5979
Fax: (202) 336-5978

Admission Requirements
The Clinical Psychology PhD Program application deadline is December 1.

Completed graduate application should be submitted to the University of Louisville, School of Interdisciplinary and Graduate Studies, Graduate Admissions (online at louisville.edu/graduate/apply) or call the School of Interdisciplinary and Graduate Studies, Graduate Admissions at (502) 852-3101 for more information.

Our PhD programs admit students to begin in the fall semester, with a usual start date of July 1. Applicants must provide the following:

1. The Graduate Record Examination (GRE) General Test. Those for whom English is not their native language must also submit TOEFL scores.
2. Transcripts of college records from all schools attended must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions. Students must have earned an undergraduate degree from an accredited college or university.
3. Three letters of recommendation from academic sources are required and must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions.

Application materials are available online, louisville.edu/psychology/doctorate. For additional information, contact Maggie Leahy, (502) 852-4364.

The Clinical Psychology PhD curriculum contains 2 basic sets of core courses: department/general core and clinical core. The curriculum closely follows guidelines for accreditation established and maintained by the American Psychological Association’s Office of Program Consultation and Accreditation (http://www.apa.org/ed/accreditation).

General Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 620</td>
<td>Human Learning</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 621</td>
<td>Cognitive Processes</td>
<td></td>
</tr>
<tr>
<td>PSYC 642</td>
<td>Behavioral Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 643</td>
<td>Principles of Neuroscience</td>
<td></td>
</tr>
<tr>
<td>PSYC 670</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 661</td>
<td>Advanced Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 673</td>
<td>Advanced Personality Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total General Core Hours: 21

Clinical Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 656</td>
<td>Legal, Professional, and Ethical Issues in Clinical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 679 &amp; PSYC 680</td>
<td>Introduction to Assessment and Clinical Skills</td>
<td>6</td>
</tr>
<tr>
<td>PSYC 683 &amp; PSYC 684</td>
<td>Psychological Interventions I</td>
<td>6</td>
</tr>
<tr>
<td>PSYC 684</td>
<td>Psychological Interventions II</td>
<td>6</td>
</tr>
</tbody>
</table>
Research Training
Students in our program get extensive training in research. From their first day of the program to the last, students are actively involved in research. A student's specific graduate training experience will depend in part on whom the student chooses as a graduate mentor and the student's specialized area of interest. Faculty mentors for the Experimental Psychology program are listed on the graduate program website (http://louisville.edu/psychology/graduate/experimental). Areas of specialized training are:

- Cognition
- Development
- Visual and Auditory Sciences
- Neuroscience

Curriculum
Our curriculum is designed to be flexible and meet the needs of individual students in our program. Students in our program take classes in two of four core areas of psychology (selected by student and mentor), two statistics courses (required of all students in our program), and five electives or specialized seminars on special topics (selected by student and mentor). Additionally, first-year students attend a proseminar on Research Methods in the fall semester, in which Experimental Psychology faculty teaches students about the research methods used in their labs. Students also develop their own presentation skills in a weekly Brown Bag seminar held in both the fall and spring semesters. Finally, students in our program complete a Master's Research Portfolio (typically right after the 2nd year), a Preliminary Exam (typically in their 3rd year), and a Dissertation.

Professional Development
Professional development is an important piece of our program. Graduate students in our program are highly encouraged to publish, present their research, attend research conferences, and gain teaching experience either as a GTA or instructor of record. They are also encouraged to take advantage of the Graduate Schools' PLAN workshops, academies, and resources (http://louisville.edu/graduate/plan), which are designed to help graduate students develop their professional skills. Their programs are geared toward students who want to develop their teaching, grant writing, publishing, community engagement, and entrepreneurial skills, just to name a few.

The department offers an intellectually enriching environment with a departmental Colloquium Series (http://louisville.edu/psychology/research/colloquium-series), the Experimental Psychology Brown Bag (http://louisville.edu/psychology/graduate/experimental/brown-bag-series), and the Clinical Psychology Colloquium and Professional Development Series. The department also hosts the Grawemeyer Award in Psychology (http://louisville.edu/psychology/about/copy_of_grawemeyer-award), a large monetary award given annually to a psychologist with a creative, influential idea in psychology.

Financial Support
Financial support for graduate students in the Experimental Psychology PhD program is available in the form of research assistantships, teaching assistantships, and University Fellowships. Most forms of support are for 12 months and include a stipend ($22,000 per year), full tuition, and health insurance.
Admission Requirements

We take a holistic approach to reviewing prospective student applications. Applicants who are admitted to our program typically possess the following qualifications, but they are not required:

- Undergraduate GPAs of 3.0 or higher
- GRE Verbal and Quantitative scores in the 50th percentile or higher
- Strong letters of recommendation that speak to the applicant’s scholarly ability and potential to succeed in a doctoral program
- A match between the applicant’s and faculty mentor’s research interests
- A psychology or neuroscience major

All applicants will be considered without discrimination on the basis of differences in age, ethnic or racial background, gender, physical abilities, sexual orientation or preference, or social background. Our program values diversity and has accepted applicants that vary on the above characteristics.

For more information, please visit our program’s Application Instructions (http://louisville.edu/psychology/graduate/experimental/apply) page.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Statistics Core</strong></td>
<td>6</td>
</tr>
<tr>
<td>PSYC 610</td>
<td>Advanced Statistics I</td>
<td></td>
</tr>
<tr>
<td>PSYC 611</td>
<td>Advanced Statistics II</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Program Core</strong></td>
<td>6</td>
</tr>
<tr>
<td>PSYC 621</td>
<td>Cognitive Processes</td>
<td></td>
</tr>
<tr>
<td>PSYC 631</td>
<td>Sensation and Perception</td>
<td></td>
</tr>
<tr>
<td>PSYC 642</td>
<td>Behavioral Neuroscience</td>
<td></td>
</tr>
<tr>
<td>or PSYC 643</td>
<td>Principles of Neuroscience</td>
<td></td>
</tr>
<tr>
<td>PSYC 661</td>
<td>Advanced Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td>15</td>
</tr>
<tr>
<td>Students are required to take five additional 600-level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>graduate seminars/courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Other Course Requirements</strong></td>
<td>33</td>
</tr>
<tr>
<td>PSYC 602</td>
<td>Research in Experimental Psychology</td>
<td></td>
</tr>
<tr>
<td>(PSYC 602-02, required first fall semester)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PSYC 602</td>
<td>Research in Experimental Psychology</td>
<td></td>
</tr>
<tr>
<td>(PSYC 602-01, repeated until in doctoral candidacy)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 605</td>
<td>Independent Study (Research) (Repeated until in doctoral candidacy)</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 701</td>
<td>Dissertation Research</td>
<td></td>
</tr>
<tr>
<td>or DOCT 600 Doctoral Candidacy</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 60

1. Students who take more than two of the Program Core courses listed above may count the additional core courses as electives.
2. In this weekly 50-minute proseminar, faculty will rotate giving presentations on the research methods used in their labs and research areas.
3. The weekly 50-minute Brown Bag provides a forum for students and faculty to present completed or ongoing research.
4. Students are required to register for PSYC 605 Independent Study (Research) with the student’s graduate research mentor every semester until the Preliminary Examination is successfully completed.
5. Upon passing the preliminary examination, students must maintain continuous enrollment at UofL until receiving their degree in one of two ways:
   1. Enrolling in classes and/or PSYC 701 (Dissertation Research), or
   2. Enrolling in DOCT 600 Doctoral Candidacy.

Master of Science in Experimental Psychology

Students are required to earn a Master of Science in Experimental Psychology. To earn the MS degree, with an approval of the student’s mentor, the student will prepare a portfolio of written work featuring research efforts and training primarily undertaken as a graduate student in the program at the University of Louisville. The portfolio should demonstrate scope and quality of research commensurate with the degree. The portfolio is typically completed in or after the summer of the 2nd year and must be approved by the student’s Master’s Portfolio Committee.

After approval of the MS portfolio and completion of 45 credit hours of graduate study, including the Statistics and Program Core, the student is awarded the Master of Science degree.

Preliminary Examination

The Preliminary Examination consists of an original written review and critique of a research area. The Preliminary Examination will be evaluated based on the breadth of knowledge, integration of literature, critical thinking, and quality of scientific writing. Students will plan the preliminary examination in collaboration with their mentors and Preliminary Examination Committees. The Preliminary Examination is typically completed by the end of the third year of training.

Dissertation

An original research project conducted and described in a report (the doctoral dissertation) by the student. The dissertation is conducted in consultation with a faculty committee and must be approved by the committee.

Public Administration (MPA)

Master of Public Administration (PADMMPA)

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Urban and Public Administration (https://louisville.edu/upa)
Program Webpage (https://louisville.edu/upa/programs/mpa)

Program Information

General Information

The Master of Public Administration Program at the University of Louisville is central to the University’s urban/metropolitan mission. The academic curriculum provides students with a solid foundation in public and nonprofit administration and prepares graduates for placement and advancement in public, private and nonprofit sector careers. The MPA faculty also advances knowledge in the field of public administration through their theoretical and applied research. The MPA is
fully accredited by the National Association of Schools of Public Affairs and Administration.

The MPA requires 42 credit hours for completion. A student can enroll on either a part-time or full-time basis. Classes are offered in formats and at times that accommodate students who work full time. Traditional classes are offered Monday through Thursday, one evening a week, from 5:30 until 8:15 PM. Hybrid-distance courses have fewer classroom meetings. Some courses are offered entirely online.

The program includes faculty from various disciplines and is aimed at providing recent college graduates, public sector practitioners, and persons in related fields with a mix of theoretical knowledge and applied skills. The degree program is available to qualified individuals holding a bachelor’s degree from an accredited college or university. No specific undergraduate major is required; however, coursework in economics and political science at the undergraduate level is helpful.

MUP/MA Programs
The Master in Public Administration Program offers joint degree programs with the Master in Urban Planning and the Master of Arts in Art (Creative) and Art History (Concentration in Critical and Curatorial Studies). For more information about the two dual programs please go to the program webpage (https://louisville.edu/upa/programs/mpa/mpa-ma).

Admission Requirements
The procedures for admission to the MPA program are as follows:

1. Submit a completed graduate application to the University of Louisville, School of Interdisciplinary and Graduate Studies, Graduate Admissions (louisville.edu/graduate/apply). Program candidates may be admitted for fall, spring or summer semesters.

2. Official transcripts verifying the receipt of a baccalaureate degree from an accredited institution must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions.

3. The Graduate Record Exam (GRE) is required. An admission decision will not be made without the GRE scores. See web www.gre.org (http://www.gre.org) for further information about the GRE or call (800) GRE-CALL, (800) 473-2255.

4. A written personal statement is required. The statement should indicate why the applicant wishes to pursue the MPA degree.

5. Two letters of recommendation are required. Normally, at least one letter should be from someone who can comment on the applicant’s academic performance.

6. International applicants are required to take the TOEFL examination if English is not their native language. Applicants who have not scored 550 or higher on the TOEFL (210 or higher on the computer-based version) may choose to apply to the Intensive English as a Second Language (IESL) Program. Successful completion of this program or passing the Exit Examination in the advanced level of IESL will constitute proof of English proficiency.

Program Requirements
The MPA requires 42 credit hours for completion: a core curriculum of 24 credit hours, including 6 credit hours of practicum internship or thesis; 12 credit hours from one of the THREE concentration areas; and 6 credit hours of electives.

#### MPA Concentrations
Students can choose one of three concentrations offered in the Program. A total of 12 credit hours is required for each concentration. Students may select among the recommended courses listed under each concentration. Students may substitute a course not listed with permission from the Director.

##### Concentration in Urban Governance

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 605</td>
<td>Public Management</td>
<td>3</td>
</tr>
<tr>
<td>PADM 606</td>
<td>Urban Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PADM 624</td>
<td>Ethics in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PADM 640</td>
<td>Urban Economics</td>
<td>3</td>
</tr>
<tr>
<td>PADM 645</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>PADM 648</td>
<td>Mediation and Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PADM 663</td>
<td>Social Equity and the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PADM 670</td>
<td>Sustainable Development &amp; Planning</td>
<td>3</td>
</tr>
<tr>
<td>PADM 674</td>
<td>Sustainable Urbanism</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

##### Concentration in Nonprofit Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 609</td>
<td>Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>PADM 612</td>
<td>Grantsmanship and Fundraising</td>
<td>3</td>
</tr>
<tr>
<td>PADM 615</td>
<td>Theories of the Non-Profit and Voluntary Sector</td>
<td>3</td>
</tr>
<tr>
<td>PADM 624</td>
<td>Ethics in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PADM 648</td>
<td>Mediation and Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PADM 663</td>
<td>Social Equity and the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PADM 664</td>
<td>Cultural Competency and Action</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

MPA students may choose 6 credit hours of elective credits from among all PADM (Public Administration) or PLAN (Planning) courses.

One of the elective courses must be denoted as a methods course. For a list of all electives and identification of those courses that count as a methods course, consult the Student Guide available at the MPA home page: louisville.edu/upa/programs/mpa.
Concentrations are offered in each of the following areas of public health. Each concentration is designed to develop the competencies needed by a public health worker in the corresponding area. The learning objectives for courses offered in each concentration are mapped to these targeted foundational CEPH competencies and the MPH Foundational Competencies published by the Council on Education for Public Health (CEPH 2016). The MPH program has adopted the foundational competencies that are relevant to the specific competencies developed for that concentration.

The learning objectives for each course in the MPH curriculum are mapped to the specific competencies developed for that concentration. If a candidate's primary language is not English, one of the following is required:

- Recommended minimum GPA of 3.0 on a 4.0 scale
- Passing an advanced level Intensive English as a Second Language program
- Degree from an accredited U.S. institution (requires provisional admission with evaluation of English language competency and

### Public Health (MPH)

**Master of Public Health (PH MPH)**

Unit: School of Public Health and Information Sciences (https://louisville.edu/sphis) (GH)

Program Webpage (http://catalog.louisville.edu/graduate/programs-study/master-public-health/louisville.edu/sphis/academics/mph-program)

**Program Information**

**Introduction**

The Master of Public Health (MPH) degree program is designed to graduate students with skills in the core competencies in public health and additional competencies in one of the following concentrations: biostatistics, environmental and occupational health, epidemiology, population health management, health policy, health promotion and behavior, or global public health.

Graduates of the MPH program are prepared for positions in the public health workforce, in health-related industries, and in academic organizations and for further professional or academic education.

**Competencies**

The MPH program has adopted the foundational competencies published by the Council on Education for Public Health (CEPH 2016 MPH Foundational Competencies (https://storage.googleapis.com/media.ceph.org/wp_assets/2016.Criteria.pdf)) and each MPH concentration has developed concentration-specific competencies.

The learning objectives for each course in the MPH curriculum are mapped to these targeted foundational CEPH competencies and the learning objectives for courses offered in each concentration are mapped to the specific competencies developed for that concentration.

**Concentrations**

Concentrations are offered in each of the following areas of public health. Each concentration is designed to develop the competencies needed by a public health worker in the corresponding area.

#### Concentration in Sustainable Urban Development Specialization

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twelve hours selected from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PADM 603</td>
<td>Policy Analysis and Program Evaluation</td>
<td>12</td>
</tr>
<tr>
<td>PADM 607</td>
<td>Planning Theory and History</td>
<td></td>
</tr>
<tr>
<td>PADM 625</td>
<td>Organizational Behavior</td>
<td></td>
</tr>
<tr>
<td>PADM 626</td>
<td>Housing and Community Development</td>
<td></td>
</tr>
<tr>
<td>PADM 645</td>
<td>Economic Development</td>
<td></td>
</tr>
<tr>
<td>PADM 670</td>
<td>Sustainable Development &amp; Planning</td>
<td></td>
</tr>
<tr>
<td>PADM 673</td>
<td>Behavioral Dimensions of Urban Sustainability</td>
<td></td>
</tr>
<tr>
<td>PADM 674</td>
<td>Sustainable Urbanism</td>
<td></td>
</tr>
<tr>
<td>PADM 675</td>
<td>Introduction to Sustainability</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 12

**Concentration**

<table>
<thead>
<tr>
<th>Department</th>
<th>MPH Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioinformatics and Biostatistics</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>Environmental and Occupational Health Sciences</td>
<td>Environmental and Occupational Health (suspended to further enrollment, effective fall 2018)</td>
</tr>
<tr>
<td>Epidemiology and Population Health</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>All</td>
<td>Global Public Health - emphasis in Maternal and Child Health</td>
</tr>
<tr>
<td>Health Management and System Sciences</td>
<td>Health Policy</td>
</tr>
<tr>
<td>Health Promotion and Behavioral Sciences</td>
<td>Health Promotion and Behavior</td>
</tr>
<tr>
<td>Health Management and Systems Sciences</td>
<td>Population Health Management</td>
</tr>
</tbody>
</table>

Students are encouraged to declare their concentration at the time of application, though applications from students that do not declare a concentration are also accepted. For students declaring concentrations, the faculty in each concentration reviews applicants for acceptance. Applications from students that do not declare a concentration are reviewed for acceptance by the MPH Program Director.

Requirements for declaring concentrations in the MPH program after matriculation are:

- Undeclared students will need to identify to a concentration prior to November 15 of their first semester.
- The student must be in good standing in the MPH program.
- Any undeclared student will first meet with the department chair or director of the concentration prior to declaring that concentration to determine if there are any additional criteria for admission to that concentration.

**Accreditation**

The School of Public Health and Information Sciences is accredited by the Council on Education for Public Health (CEPH). For more information, see the School's accreditation webpage (http://louisville.edu/sphis/accreditation).

**Admission Requirements**

The ideal candidate for admission to the MPH program has received the equivalent of a bachelor’s degree or higher, can comprehend and communicate effectively in English, has the recommendations of at least three persons in a health-related or advanced education field, has performed satisfactorily on one or more standardized test, and is interested in pursuing a career in public health or a related field.

The requirements for admission to the MPH program are:

- Bachelor's degree from an accredited institution or its equivalent
- Recommended minimum GPA of 3.0 on a 4.0 scale
- If a candidate's primary language is not English, one of the following:
  - Test of English as a Foreign Language (TOEFL) exam with a minimum score of 90 (after conversion for test type)
  - Passing an advanced level Intensive English as a Second Language program.
- Degree from an accredited U.S. institution (requires provisional admission with evaluation of English language competency and

**Concentration**

<table>
<thead>
<tr>
<th>Department</th>
<th>MPH Concentration</th>
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<tr>
<td>Bioinformatics and Biostatistics</td>
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</tr>
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<td>Health Policy</td>
</tr>
<tr>
<td>Health Promotion and Behavioral Sciences</td>
<td>Health Promotion and Behavior</td>
</tr>
<tr>
<td>Health Management and Systems Sciences</td>
<td>Population Health Management</td>
</tr>
</tbody>
</table>
potential requirement to pass an advanced level Intensive English as a Second Language program)

Applicants must apply through the Centralized Application Service for Public Health (SOPHAS) at SOPHAS.org (http://WWW.SOPHAS.org).

Students graduating from the University of Louisville and planning to attend the MPH program can apply directly to the School of Public Health and Information Sciences.

An application is considered after the following requirements have been received:

• Three letters of recommendation written within the last twelve months.
• Official transcripts of all degrees.
• One-page personal statement written by the applicant that is a clear, substantive description of his or her goals in public health, noting any professional or research experience.
• Official score from any of the following standardized tests: GRE*, MCAT, DAT, GMAT, or LSAT.
• International applicants: Foreign credential evaluation of all degrees from non-U.S. institutions. Please contact the MPH program prior to completing this requirement.
• Students applying with a concentration in Health Policy must be interviewed by the HMSS Health Leadership Committee.

* The GRE requirement may be waived for applicants to the MPH Program who have four or more years of public health-related experience. Each department determines what constitutes such experience for their discipline. Applicants interested in applying for a GRE waiver should contact the relevant department.

For information on the application process, please contact:

MPH Program
School of Public Health and Information Sciences
University of Louisville
485 East Gray Street
Louisville, KY 40202
sphismph@louisville.edu
Phone: (502) 852-3289
Fax: (502) 852-3294

Faculty Advisor
On matriculation, each student is assigned a faculty advisor and is requested to meet at least twice each semester with his or her advisor. If a student is admitted to a specific concentration that Department will assign a specific faculty advisor. If students are admitted to the Global Health MPH or as undeclared, the MPH program director will serve as their advisor. Undeclared students admitted to a specific concentration by the end of the first semester will be assigned a faculty advisor from the Department that houses that concentration. For Global Health students, a faculty advisor from the Global Health faculty will be assigned by the end of the first semester.

The faculty advisor serves as academic practicum advisor, academic mentor, and counselor on career and employment opportunities, professional development, and opportunities beyond graduate school.

Program Requirements
The MPH curriculum consists of core courses, concentration courses in one of the areas of public health, completion of a practicum experience, and completion of an integrating experience. The core courses are generally completed prior to taking concentration courses, the integration experience, and the practicum.

Full-time students are expected to complete the program and graduate in two years. Part-time students are required to complete the program and graduate within six years.

Coursework
42-48 total credit hours:

• 15 credit hours of core courses
• 3 credit hours of practicum experience
• 3 credit hours of integrating experience
• 21-27 credit hours of concentration coursework

Students must successfully complete core, concentration, practicum, and integrating experience coursework with a minimum GPA of 3.0.

MPH Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 501</td>
<td>Introduction to Public Health Practice and Administration</td>
<td>15</td>
</tr>
<tr>
<td>PHPB 501</td>
<td>Introduction to Public Health Behavior</td>
<td></td>
</tr>
<tr>
<td>PHEP 501</td>
<td>Introduction to Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PHST 500</td>
<td>Introduction to Biostatistics for Health Sciences I</td>
<td></td>
</tr>
<tr>
<td>PHEH 500</td>
<td>Introduction to Environmental and Occupational Health Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Practicum
3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHPH 679</td>
<td>Public Health Practicum Experience 1</td>
<td></td>
</tr>
</tbody>
</table>

Integrating Experience
3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHPH 69X</td>
<td>Integrating Learning I (1 hour, course pending)</td>
<td></td>
</tr>
<tr>
<td>PHPH 697</td>
<td>Integrating Learning and Experience in Public Health (2 hours)</td>
<td></td>
</tr>
</tbody>
</table>

Concentration Coursework
21-27

See Concentration Requirements for specific coursework and a two-year (full-time) Plan of Study

Minimum Total Hours
42-48

1 Can be 1, 2, or 3 hours per semester, for a total of 3 credit hours. Hours in a semester vary depending on concentration (see Concentration Requirements).

Concentration courses (minimum 21 credit hours)
All students seeking an MPH degree in the School of Public Health and Information Sciences (SPHIS) must take a minimum of 21 credit hours in their selected concentration. For a detailed description of coursework for each of the concentrations, click on "Concentration Requirements" in the menu above.

Concentration Requirements
Biostatistics Concentration
42 total hours, made up of the following:
15 credit hours of MPH core coursework
3 credit hours of Practicum
3 credit hours of Integrating Experience
21 credit hours of required courses in Biostatistics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 501</td>
<td>Introduction to Public Health Practice and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 501</td>
<td>Introduction to Public Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 501</td>
<td>Introduction to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PHST 500</td>
<td>Introduction to Biostatistics for Health Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PHEH 600</td>
<td>Epidemiology (3)*</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 679</td>
<td>Public Health Practicum Experience</td>
<td>1</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHEH 500</td>
<td>Introduction to Environmental and Occupational Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHST 501</td>
<td>Introduction to Biostatistics for Health Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>PHST 620</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHPH 679</td>
<td>Public Health Practicum Experience</td>
<td>1</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

### Epidemiology Concentration

Students concentrating in the MPH Epidemiology Program will be required to fulfill a minimum of 48 credit hours including the following:

15 credit hours of MPH core coursework
3 credit hours of Practicum
3 credit hours of Integrating Experience
24 credit hours of required courses in Epidemiology
3 credit hours (maximum) of either a) an epidemiology selective or b) an independent study (i.e., PHEP 666)²

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 501</td>
<td>Introduction to Public Health Practice and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 501</td>
<td>Introduction to Public Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 501</td>
<td>Introduction to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PHST 500</td>
<td>Introduction to Biostatistics for Health Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PHEH 647</td>
<td>Epidemiology Data Management &amp; Analytics Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

### Global Public Health Concentration - Maternal and Child Health Emphasis

48 total credit hours, made up of the following:

15 credit hours of MPH core coursework
15 credit hours of Global MPH concentration courses
3 credit hours of practicum experience

² PHEP 666 Masters Independent Study in Epidemiology and Population Health may be taken as an optional course for MPH Epi-concentration students who wish to supplement their learning experience via independent research with a faculty member. Enrollment is limited to 3 credit hours for an MPH student.

*Availability subject to coordination with Global Health Concentration. Non-epidemiology courses also may be selected pending program and instructor permissions; all courses offered by SPHIS are pre-approved by the program, with the exception of those required for the MS or PhD in Epidemiology (PHEP 618, PHEP 621, PHEP 622, PHEP 623, PHEP 648, PHEP 649, PHEP 701, PHEP 702, PHEP 750, PHEP 778) for which both program and instructor permission will be required for enrollment.
Health Policy Concentration

48 total hours, made up of the following:

- 15 credit hours of MPH core coursework
- 3 credit hours of Practicum
- 3 credit hours of Integrating Experience
- 27 credit hours of required courses in Health Policy

Course Title Hours
---
Year 1
Fall
PHMS 501 Introduction to Public Health Practice and Administration 3
PHPB 501 Introduction to Public Health Behavior 3
PHEP 501 Introduction to Epidemiology 3
PHST 500 Introduction to Biostatistics for Health Sciences I 3
Spring
PHEH 500 Introduction to Environmental and Occupational Health Sciences 3
PHST 501 Introduction to Biostatistics for Health Sciences II 3
PHMS 530 Comparative Health Systems 3
PHEP 615 Foundations of Global Maternal and Child Health 3
PHPH 679 Public Health Practicum Experience 1
Year 2
Fall
PHPH 69X Integrating Learning I, course pending 1
Spring
PHEH 679 Health Promotion Policy Development and Advocacy 3
PHST 500 Introduction to Biostatistics for Health Sciences I 3

Minimum Total Hours 48
*Other elective can be any SPHIS course for which the student meets the prerequisites or other another relevant course approved by the student’s academic advisor.

Public Health Sciences: Specialization in Environmental Health (PhD)

Doctor of Philosophy in Public Health Sciences specialization in Environmental Health (PHSCPHDENV)
Unit: School of Public Health and Information Sciences (http://louisville.edu/sphis) (GH)
Department: Environmental and Occupational Health Sciences (http://louisville.edu/sphis/departments/environmental-occupational-health-sciences)
Program Webpage (https://louisville.edu/sphis/academics)

Program Information
The specialization in Environmental Health for the PhD in Public Health Sciences is designed to provide scholars with the tools to conduct in-depth research and provide advanced instruction in the discipline of environmental health at the college and university level. It also prepares researchers for governmental, private, and voluntary organizations involved in environmental protection and the prevention of disease and injury. In addition to understanding advanced concepts of environmental health, industrial hygiene, and toxicology, graduates of this specialization are expected to develop skills that enable them to identify and define questions of environmental and occupational health importance, design research studies to address these questions, and to complete a program of research that demonstrates abilities as an independent investigator.

Competencies
To graduate, a student in the Specialization in Environmental Health PhD program must demonstrate the following competencies*:

<table>
<thead>
<tr>
<th>Competency</th>
<th>CE</th>
<th>SCP</th>
<th>Dsrt</th>
</tr>
</thead>
<tbody>
<tr>
<td>In depth knowledge of the history of environmental health</td>
<td>Passing qualifying examination</td>
<td>Successful completion and defense of dissertation</td>
<td></td>
</tr>
<tr>
<td>Mastery of experimental study designs and the ability to identify optimal designs for specific hypotheses.</td>
<td>Successful development, conduct, completion and defense of the dissertation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ability to critically evaluate published environmental health research.</td>
<td>Successful development, conduct, completion and defense of the dissertation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Expertise in one or more environmental health specialty such as risk assessment, environmental management, environmental and occupational toxicology

Practical knowledge of issues in research management including: 1) Formation and leadership of multidisciplinary teams. 2) Staffing, budgeting, tracking. 3) Subject recruitment and retention. 4) Data quality control and data safety management. 5) Funding mechanisms and grantsmanship. 6) Research ethics and regulations.

Professional quality peer-review, oral and poster presentation, report, grant, and manuscript writing

*Key for demonstration (method):
CE = Comprehensive examinations
SCP = Statistical consulting practicum
Dsrt = Dissertation

Faculty Advisor
Upon admission to the PhD specialization, each student is assigned a faculty advisor who works with the student to develop a program of study. The program of study recognizes core elements of environmental health as well as its breadth and multidisciplinary nature. At the PhD level, this requires the selection of courses directly relevant to environmental health, such as biostatistics, epidemiology, molecular genetics, behavioral science, health policy/management, systems sciences, or other relevant areas of study.
Program of Study

Each doctoral student, in consultation with his or her academic advisor and the department chair, plans a program of study that uniquely fits the student’s career goals. The design of a doctoral program of study that reflects each student’s professional skills and research interest is the primary organizing principle of the proposed program.

The PhD specialization in environmental health is designed as a 39-credit hour program plus dissertation. Additional hours may be needed for completion of the specialization program.

Admission Requirements

An applicant who has satisfactorily completed an appropriate degree with a concentration in environmental health or an advanced degree (MD, DVM, PhD and DO) may be eligible for admission to the PhD in Public Health Environmental Health Specialization pending evaluation of appropriate training, experience, or coursework. The previous graduate work by such an applicant is reviewed on a case-by-case basis, and the applicant, if admitted, may be required to take additional coursework prior to completing the minimum 39 credit hours required for post-master’s doctoral work.

The following are additionally required for admission:

- Undergraduate and Graduate GPA>3.0 on 4.0 scale
- GRE test scores. May be waived if applicant has a doctoral degree from an accredited U.S. institution.
- If applicable, Test of English as a Foreign Language (TOEFL) score>60th percentile

Program Requirements

The PhD specialization in Environmental Health is designed as a 39-credit hour program plus dissertation. Additional hours may be needed for completion of the specialization program.

The emphasis in doctoral training goes beyond accumulating course credit. Completion of the coursework is the prelude to sitting for the qualifying examination. Successful passage of the qualifying examination allows the student to enter doctoral candidacy. A doctoral candidate must then successfully develop and defend a dissertation proposal that describes an original and independent research project. Upon successful defense of the proposal, a student may then proceed to dissertation research. Upon successful completion of the research, defense of the dissertation, and demonstration of the required competencies, a student is awarded the PhD degree.

Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Coursework</strong></td>
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<tr>
<td>BIOC 645</td>
<td>Advanced Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 647</td>
<td>Advanced Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics</td>
<td>4</td>
</tr>
<tr>
<td>PHEH 750</td>
<td>Seminar 1 in Environmental Health</td>
<td>1</td>
</tr>
<tr>
<td>PHEH 751</td>
<td>Seminar 2 in Environmental Health</td>
<td>1</td>
</tr>
<tr>
<td>PHEH 752</td>
<td>Seminar 3 in Environmental Health</td>
<td>1</td>
</tr>
<tr>
<td>PHEH 754</td>
<td>Seminar 4 in Environmental Health</td>
<td>1</td>
</tr>
<tr>
<td>PHEP 602</td>
<td>Epidemiological Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHST 620</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHST 680</td>
<td>Biostatistical Methods I</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

As a part of the approved program of study, a student has the option to select 12 credit hours of elective coursework. Courses directly relevant to environmental health are preferred, including, but not limited to, biostatistics, bioinformatics, epidemiology, medical geography, molecular or population genetics, toxicology, microbiology, health services research, outcomes research, and health promotion and behavior. Courses may be selected from those offered within the School of Public Health and Information Sciences, other departments within the university, or from sources outside the university with permission and acceptance of credit by the program and dean.

Because the need for specific research methods and statistics skills varies by research topic, requirements in these areas are difficult to define explicitly for all students. The student’s program of study utilizes electives to provide the student with the courses needed in his or her particular case.

A student may petition to take courses not on this list with the approval of the instructor and the chair of the department. The student must provide a written rationale for the choices of elective coursework in his or her program of study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Approved Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHEH 753</td>
<td>Independent Study in Environmental and Occupational Health</td>
<td>1-6</td>
</tr>
<tr>
<td>PHST 650</td>
<td>Advanced Topics in Biostatistics</td>
<td>1-3</td>
</tr>
<tr>
<td>PHST 681</td>
<td>Biostatistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>PHPB 650</td>
<td>Advanced Topics in Health Promotion and Behavioral Sciences</td>
<td>1-3</td>
</tr>
<tr>
<td>PHMS 650</td>
<td>Advanced Topics in Health Management and Systems Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>Advanced Techniques in Biochemistry and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 640</td>
<td>Principles of Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>BIOC 667</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 668</td>
<td>Molecular Biology and Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 675</td>
<td>Cancer Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 522</td>
<td>Aquatic Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 562</td>
<td>Ecosystems Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 563</td>
<td>Population and Community Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 660</td>
<td>Advanced Ecology of Urban and Suburban Landscapes</td>
<td>4</td>
</tr>
<tr>
<td>CEE 573</td>
<td>Groundwater Hydrology</td>
<td>3</td>
</tr>
</tbody>
</table>
Qualifying Examination
Upon completion of the majority of the required coursework for the PhD (typically after the second year of coursework), the student is eligible to sit for the doctoral qualifying examination. The timing and eligibility for the qualifying examination is determined by the student's faculty advisor and department chair. Students must take the exam within three months of the completion of all courses for the PhD program. A student who does not successfully complete the exam may be required to take additional or remedial coursework. The student is allowed one opportunity to retake the exam no more than six months after the initial exam and at a date mutually agreed upon by the faculty and student. Successful completion of the examination admits the student to doctoral candidacy (DOCT 600) until the completion of their dissertation.

Dissertation
A dissertation is required of a candidate for the degree of Doctor of Philosophy in Public Health Sciences with a Specialization in Environmental Health. It is to be a scholarly achievement in research and should demonstrate a thorough understanding of research techniques in environmental health and the ability to conduct independent research. The dissertation must follow the guidelines of the School of Interdisciplinary and Graduate Studies located at louisville.edu/graduate/current-students/thesis-dissertation-information.

Dissertation Committee
The dissertation shall be reviewed by a reading committee, chaired by the student's faculty advisor, and appointed by the dean upon the advice of the chair of the department. If faculty advisor is from an allied department, the EOHS department chair will co-chair the committee. This committee shall consist of a minimum of four members, and must include one representative of an allied department or school. The dissertation must be approved by the committee and the chair of the department.

Dissertation Proposal
A student who successfully completes the qualifying exam must submit a written dissertation proposal to all members of the dissertation committee. The student is then orally examined on the dissertation proposal.

Dissertation Preparation
The dissertation is to be prepared in format and binding according to the guidelines established by the School of Interdisciplinary and Graduate Studies, available at louisville.edu/graduate/current-students/thesis-dissertation-information.

Dissertation Approval
The dissertation is to be submitted in completed form to the chair of the department at least thirty days before the end of the term in which the candidate expects to be graduated. The candidate is not eligible for final examination until the dissertation has been accepted by the committee and chair. The dissertation committee schedules an oral defense by the candidate and notifies the School of Interdisciplinary and Graduate Studies using the form available at louisville.edu/graduate/current-students/thesis-dissertation-information. The time and place for the defense is published by the School of Interdisciplinary and Graduate Studies to the general academic community, members of which are free to attend the defense. The dissertation is approved by a majority vote of the committee and the concurrence of the department chair.

Dissertation Submission
The following steps must be taken to submit the final copy of the dissertation electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies and the department's administrative assistant.
2. Submit as advised by the School of Interdisciplinary and Graduate Studies through the ThinkIR repository. The directions on submission will be provided upon review of the dissertation by the School of Interdisciplinary and Graduate Studies.
3. The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.
4. Submit a signed signature page on white paper, with original signatures, to the School of Interdisciplinary and Graduate Studies.

Public Health Sciences: Specialization in Epidemiology (PhD)
Doctor of Philosophy in Public Health Sciences specialization in Epidemiology (PHSCPHDEPI)
Unit: School of Public Health and Information Sciences (http://louisville.edu/sphis) (GH)
Department: Epidemiology and Population Health (http://louisville.edu/sphis/departments/epidemiology-population-health)
Program Webpage (https://louisville.edu/sphis/academics)

Program Information

The specialization in Epidemiology in the PhD program in Public Health Sciences is designed to develop academic researchers in population-based epidemiology.

Competencies

To graduate, students in the PhD specialization in Epidemiology must demonstrate the following competencies in addition to those for the MS degree:

- In-depth knowledge of the history and philosophy of epidemiology
- Mastery of experimental and observational study designs and the ability to identify optimal designs for specific hypotheses
- Ability to develop and apply:
  - Questionnaires
  - Biomarkers for health status, exposure, and susceptibility
- Mastery of multivariable analytic methods for evaluating risk and prognosis
- Ability to critically evaluate the published epidemiologic research
- Expertise in one or more epidemiologic specialties such as nutritional, molecular, clinical, genetic, cancer, or chronic disease epidemiology
- Practical knowledge of issues in research management including:
  - Formation and leadership of multidisciplinary teams
  - Staffing, budgeting, tracking
  - Subject recruitment and retention
  - Data quality control and data safety management
  - Funding mechanisms and grantsmanship
  - Research ethics and regulations
  - Professional quality peer-review, oral and poster presentation, report, grant, and manuscript writing
  - Mentoring of junior peers
  - Development, conduct, completion and defense of a dissertation on an original research project

Competencies are demonstrated by passage of the proficiency and candidacy examinations, by successful mentoring of master's students or doctoral students not yet in candidacy, and by successful completion and defense of the dissertation.

Faculty Advisor

Upon admission to the specialization, each student is assigned a faculty advisor who works with the student to develop a program of study.

Program of Study

The program of study recognizes core elements of modern epidemiology as well as its breadth and multidisciplinary nature. This requires the selection of a minor field of specialization, such as biostatistics, environmental science, molecular genetics, behavioral science, health management and systems sciences, clinical research, or another relevant area of study, and the completion of at least six (6) credit hours of coursework in this field.

Admission Requirements

Students who have satisfactorily completed the MS degree in Epidemiology are eligible for the PhD specialization in Epidemiology. Students with a master's degree in a related discipline or an advanced degree (for example, MD, PhD, DO) may be accepted also pending evaluation of appropriate training, experience, and coursework. Previous coursework in mathematics and/or statistics and biological or health sciences (for example, biology, biochemistry, anatomy, physiology, microbiology) is strongly recommended.

Students completing the MSc in Clinical Investigation Sciences or MPH with an Epidemiology specialization may be required to complete additional coursework to be accepted into the Epidemiology PhD specialization.

In order to submit an application to one of the School of Public Health and Information Sciences (SPHIS) degree programs, you must apply to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply).

Program Requirements

The PhD specialization in Epidemiology is designed to consist of 49 to 50 credit hours of coursework over a minimum of two years plus one to four years for completion of the dissertation. The coursework is organized into two blocks of 25/26 and 24 credit hours. Completion of the first block of coursework is prerequisite for sitting for the proficiency examination. After passing the proficiency examination, the student can proceed with the second block of coursework. Successful completion of the second block is prerequisite to sitting for the candidacy examination.

After passing the candidacy examination, the student is admitted to doctoral candidacy. A doctoral candidate must then successfully develop and defend a dissertation proposal that describes an original and independent research project. Upon successful defense of the proposal, the student may then proceed to dissertation research. Upon successful completion of the research, oral defense of the dissertation, and demonstration of the required competencies listed above, the student is awarded the PhD degree.

The coursework outlined below represents an ideal sequence for a full-time student. A part-time student may need to deviate from this sequence. As part of the first block, a student is expected to complete required courses in basic and advanced epidemiologic methods that cover core areas including study design, research management, and statistical analysis; the survey course in disease biology and pathophysiology; and a minimum of six (6) credit hours of epidemiology seminars. The student must pass the proficiency examination before proceeding to minor electives and individual studies in the second block, which must include an additional three (3) credit hours of epidemiology seminars. Exceptions may be granted upon approval by the student's advisor and the department chair.

Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Block 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall I</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHEP 621</td>
<td>Statistical Foundations for Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 648</td>
<td>Data Management and Analysis for Epidemiology</td>
<td>1</td>
</tr>
<tr>
<td>PHEP 623</td>
<td>Theoretical Foundations of Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor Elective Requirement

As a part of the approved program of study, the student is required to complete 6 credit hours of coursework in a minor field of specialization. Areas directly relevant to the science of epidemiology are preferred, including, but not limited to, biostatistics, bioinformatics, medical geography, molecular or population genetics, environmental health, toxicology, microbiology, health management, health promotion and behavioral science, and clinical research. These courses may be selected from ones offered within the school, other departments within the university, or from sources outside the university with permission and acceptance of credit by the school and university.

Minor courses should be chosen by the student in consultation with his or her advisor and the respective course directors. Students may petition to take courses not on this list with approval of the instructor, program director, and the chair of the Department of Epidemiology and Population Health. The student must provide a written rationale for the choice of minor coursework in the program of study. The following is a partial list of approved minor courses. Some courses may have prerequisites, and the student is expected to either meet these or obtain permission from the instructor before registering.

Students who have completed the MS degree and have been accepted to the PhD program will advance to Block 2 of the PhD curriculum upon matriculation.

1 Epidemiology Content Course electives consist of courses specialized in either an exposure or disease category and offerings will vary from semester to semester based upon faculty workloads and student programs of study.

2 A minimum of 25 credit hours of coursework is required before taking the Proficiency Exam.

3 Biostatistics electives for PhD students should be restricted to advanced courses such as Categorical Data Analysis, Survival Analysis, Longitudinal Data Analysis, Bioinformatics, etc.

4 A minimum of 49 credit hours of coursework is required before taking the Candidacy Exam.
epidemiologic methods; specialized knowledge pertaining to the minor field of specialization; disease biology and pathophysiology, which may be tailored to the student’s special area of interest; and knowledge of the research process. Successful passage of the candidacy examination admits the student to doctoral candidacy. A student who does not successfully pass the candidacy examination may be required to take additional or remedial coursework and is allowed a second opportunity to pass the exam. Failing the candidacy examination the second time results in dismissal from the program.

**Dissertation**

A dissertation is required of every candidate for the degree of Doctor of Philosophy in Public Health Sciences with a specialization in Epidemiology. The dissertation is a scholarly achievement in research and presents an original contribution to knowledge. It should demonstrate a thorough understanding of research techniques in epidemiology and the ability to conduct independent research. The following sections summarize the basic requirements for the dissertation committee, dissertation proposal, and defense. Additional details are available in the department's document "Student Advising, Thesis and Dissertation Committees."

**Dissertation Committee**

The dissertation is read by a dissertation committee, chaired by the student’s faculty advisor and appointed by the Dean of the school on the recommendation of the program director and chair of the department. The committee consists of at least four members and must include one representative of an allied department. The dissertation must be approved by the committee and the chair of the department.

**Dissertation Proposal**

After successful completion of the qualifying examination, a doctoral candidate must submit a written dissertation proposal to the members of the dissertation committee. The candidate is then orally examined on the dissertation proposal.

**Dissertation Preparation**

The dissertation is prepared with the format and binding according to the guidelines of the School of Interdisciplinary and Graduate Studies, available at louisville.edu/graduate/current-students/thesis-dissertation-information.

**Dissertation Approval**

The dissertation is submitted in completed form to the chair of the department at least thirty days before the end of the term in which the candidate expects to be graduated, and the candidate is not eligible for final examination until the dissertation has been received by the committee and chair.

The dissertation committee schedules an oral defense by the candidate. The time and place for the defense is published to the general academic community, members of which are free to attend the defense. The dissertation is approved by a majority vote of the committee and the concurrence of the department chair.

**Dissertation Submission**

The following steps must be taken to submit the final copy of the dissertation electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies and the department's administrative assistant.

2. Submit as advised by the School of Interdisciplinary and Graduate Studies through the ThinkIR repository. The directions on submission will be provided upon review of the dissertation by the School of Interdisciplinary and Graduate Studies.

3. The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.

4. Submit a signed signature page on white paper, with original signatures, to the School of Interdisciplinary and Graduate Studies.

A copy of the final, signed dissertation must also be deposited with the department office.

**Public Health Sciences: Specialization in Health Management and Policy (PhD)**

**Doctor of Philosophy in Public Health Sciences specialization in Health Management and Policy (PHSCPHDHMP)**

Unit: School of Public Health and Information Sciences (http://louisville.edu/sphis) (GH)

Department: Health Management and Systems Sciences (http://louisville.edu/sphis/departments/health-management-systems-sciences) (HMSS)

Program Webpage (https://louisville.edu/sphis/academics)

**Program Information**

The specialization in Public Health Management and Policy is designed to prepare graduates for careers as researchers and teachers involved in the efforts to protect and promote the health and well-being of communities and populations. It provides graduates with the knowledge and skills necessary to attain academic positions involving scholarly research and instruction in the disciplines of public health management and key policy and management positions in governmental as well as private and voluntary organizations. In addition to an in-depth understanding of the infrastructure and context of Public Health Management and Policy, graduates of this specialization are expected to be able to identify issues and questions of importance with regard to the management of the resources of public health and to design and carry out a program of research designed to address these issues and questions. Graduates should be able to demonstrate abilities as an independent investigator as well as a team collaborator.

**Competencies**

To graduate, a student in the PhD specialization in Public Health Management and Policy must demonstrate the following competencies:

1. In-depth knowledge of the history of public health, health management, and health services research.

2. Mastery of experimental research study designs, including qualitative as well as quantitative, and the ability to identify optimal designs for specific hypotheses.

3. Ability to critically evaluate published research related to health management and health services research.

4. Expertise in one or more health services research specialties such as health policy, organization theory, long-term care policy, health economics, etc.

5. Practical knowledge of issues in research management including:
The minimum required documentation for full admission must include:

48 credit hours required for post-master's doctoral work. 
Required to take additional coursework prior to completing the minimum 
reviewed on a case-by-case basis, and the applicant, if admitted, may be 
evaluated on the basis of appropriateness of previous coursework, 
policy specialization. Applicants already holding an advanced degree 
(U.S. institution or has obtained an Educational Commission for 
Foreign Medical Graduates (ECFMG) certificate. 
Three (3) letters of recommendation from individuals who have 
direct knowledge and experience with the applicant’s academic or 
professional work experience. 
Official TOEFL score if applicant's native language is not English and 
applicant has no degree from accredited U.S. institution. 
Foreign credential evaluation for each degree not from an accredited 
U.S. institution 
Admission interviews by the PhD Committee are required and are in 
addition to your application for admission. An interview provides the 
PhD Committee an additional source of information and perspective 
about your potential fit for the University of Louisville. 
The following are recommended criteria for admission:

- Undergraduate and graduate GPA each ≥ 3.0 on 4.0 scale 
- GRE performance recommended in 50th percentile or above for verbal 
  and quantitative scores (Comparable scores on the MCAT or DAT are 
  considered.) 
- If applicable, Test of English as a Foreign Language (TOEFL) score in 
  60th percentile or above

Program Requirements
Forty-eight (48) total credit hours: 30 credit hours of required 
coursework, 3 credit hours of public health management seminars, and 
15 credit hours within an emphasis area. Some required or emphasis 
area courses may require additional credit hours in prerequisite courses 
not already taken by the student. The specific coursework for a student 
is established with the student’s individualized program of study. The 
design of a doctoral program of study that reflects each student’s 
professional skills and research interest is the primary organizing 
principle of the proposed program. 
The emphasis in doctoral training goes beyond accumulating course 
credit. Completion of the coursework is the prelude to sitting for 
the qualifying examination. Successful passage of the qualifying 
examination allows the student to enter doctoral candidacy. A doctoral 
candidate must then successfully develop and present to the HMSS 
PhD Committee a preliminary dissertation proposal (PDP) that describes 
the dissertation committee, what the student wishes to accomplish 
with the dissertation, and an original and independent research project 
in the prescribed format. Once the PDP is approved by the HMSS PhD 
Committee, the student may schedule the proposal defense. Upon 
successful defense of the proposal, a student may then proceed to 
dissertation research. 
Upon successful completion of the research, defense of the dissertation, 
and demonstration of the required competencies listed below, a student 
is awarded the PhD degree.
Coursework

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
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<tr>
<td><strong>Required Coursework</strong></td>
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<td><strong>Health Management Foundations</strong></td>
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<td></td>
</tr>
<tr>
<td>PHMS 700</td>
<td>Introduction to Health Services Research</td>
<td>9</td>
</tr>
<tr>
<td>PHMS 715</td>
<td>Health Policy Research</td>
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<tr>
<td>PHMS 708</td>
<td>Population Health and Health Disparities</td>
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<tr>
<td><strong>Theoretical Foundations</strong></td>
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<tr>
<td>PHMS 720</td>
<td>Organizational Theory in Health Services Research</td>
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</tr>
<tr>
<td>PHMS 740</td>
<td>Microeconomic Theory</td>
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<tr>
<td><strong>Health Management Research Methods</strong></td>
<td>18</td>
<td></td>
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<tr>
<td>SOC 618</td>
<td>Qualitative Research Methods</td>
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</tr>
<tr>
<td>PHST 650</td>
<td>Advanced Topics in Biostatistics</td>
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<td>PHST 680</td>
<td>Biostatistical Methods I</td>
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<tr>
<td>PHST 681</td>
<td>Biostatistical Methods II</td>
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<tr>
<td>PHMS 645</td>
<td>Health Services Research Methods I</td>
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<tr>
<td>PHMS 646</td>
<td>Health Services Research Methods II</td>
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<tr>
<td>PHMS 725</td>
<td>Economic Evaluation in Health Care</td>
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<td><strong>Seminars</strong></td>
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<tr>
<td>PHMS 751</td>
<td>Seminar 1 in Public Health Management</td>
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<tr>
<td>PHMS 752</td>
<td>Seminar 2 in Public Health Management</td>
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<tr>
<td>PHMS 753</td>
<td>Seminar 3 in Public Health Management</td>
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<td><strong>Specialization/Emphasis Area (see below)</strong></td>
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<tr>
<td><strong>Minimum Total Hours</strong></td>
<td>48</td>
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</tr>
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</table>

HMSS PhD Seminars

A student in the PhD specialization in Health Management and Policy is required to complete at least three (3) credit hours in the HMSS PhD Seminar (PHMS 751, PHMS 752, PHMS 753). These group courses are jointly taught by the faculty of the department and are designed to provide a collegial experience that provides an opportunity to integrate learning from other courses, discuss hot topics, brainstorm about research ideas, and acquire professional skills in scientific manuscript and grant writing, oral and poster presentations, grantmanship, and peer review.

Emphasis Area

As a part of the approved program of study, a student is able to select 15 credit hours of elective coursework that is structured around a specific area within public health. For example, students could choose to do an emphasis area in long-term care policy, population health, global health, etc. Courses may be selected from those offered within the school, other schools or colleges within the university, or from sources outside the university with permission and acceptance of credit by the school and university.

Emphasis areas need to be submitted by each student by the end of the second semester in the Program. Because some courses are only offered every other year, the student and the faculty advisor must plan the emphasis area sequence as soon as reasonably possible.

All emphasis areas need to be first approved by a student’s advisor and then presented to the HMSS PhD Committee for approval. The HMSS PhD Committee will review the chosen courses and confirm that they contribute to an overall expertise within the emphasis area designated by the student. The student must provide a written rationale for the choices of elective coursework in his or her emphasis area. These can be tweaked and changed while the student is in the program. However, these changes must also be approved by the HMSS PhD Committee.

Emphasis Area Examples

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td><strong>Organizational Systems</strong></td>
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</tr>
<tr>
<td>PADM 600</td>
<td>Foundations of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 615</td>
<td>Introduction to Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 655</td>
<td>Systems Thinking and Dynamic Modeling in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 605</td>
<td>Governance and Management of Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 725</td>
<td>Organizational Theory</td>
<td>3</td>
</tr>
<tr>
<td><strong>HSR Methods</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHMS 725</td>
<td>Economic Evaluation in Health Care (‘Economic Evaluation in Health Care’ course approval pending)</td>
<td>3</td>
</tr>
<tr>
<td>PHST 704</td>
<td>Mixed Effect Models and Longitudinal Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHST 785</td>
<td>Nonlinear Regression</td>
<td>3</td>
</tr>
<tr>
<td>SW 773</td>
<td>Advanced Measurement in Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Health Policy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 740</td>
<td>Social Policy</td>
<td>3</td>
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<tr>
<td>PHPB 705</td>
<td>Community Organizing and Health Policy Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 725</td>
<td>Leadership and Health Policy for the Doctorally Prepared Nurse</td>
<td>3</td>
</tr>
<tr>
<td>PADM 606</td>
<td>Urban Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 610</td>
<td>Health Policy &amp; Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Qualifying Examination

Upon completion of the required coursework (a minimum of 30 credit hours not including 15 credit hours of emphasis area coursework) and public health management seminars (3 credit hours total) for the PhD, the student is eligible to sit for the qualifying examination. The components of the qualifying exam focus on the subject matter drawn from foundation courses and health management research methods. The timing and eligibility for the qualifying exams are determined by the student’s faculty advisor and the HMSS PhD Committee. Successful completion of the exam admits the student to doctoral candidacy. A student who does not successfully complete the exam may be required to take additional or remedial coursework and is allowed one opportunity to retake the exam. After admission into candidacy, the student will still be responsible for completing the additional 15 credit hours of required emphasis area coursework.

Dissertation

A dissertation is required of a candidate for the degree of Doctor of Philosophy in Public Health Sciences with a specialization in Public Health Management and Policy. It is to be a scholarly achievement in research and should demonstrate a thorough understanding of research techniques in health management and the ability to conduct independent research. All dissertations use a three-paper format.

Dissertation Committee

The dissertation shall be read by a reading committee, chaired by the student’s faculty advisor, and appointed by the dean of the school upon the advice of HMSS PhD Committee. This committee shall consist of at
least four members and must include one representative of an external department. The dissertation must be approved by the committee and the chair of the department.

The composition of the dissertation committee must be reviewed and approved by the HMSS PhD Committee. This is done as part of the preliminary dissertation proposal (PDP) process.

**Preliminary Dissertation Proposal**

The Preliminary Dissertation Proposal (PDP) process involves a student (1) forming the dissertation committee; (2) writing a preliminary dissertation proposal using the PDP format; (3) submitting the PDP to an outside reviewer for comment (the HMSS PhD Committee will identify the outside reviewer); (4) the dissertation chair will present the PDP to the HMSS PhD Committee; and (5) the HMSS PhD Committee will provide feedback and approve the PDP to move to the proposal defense stage. Students may not move to the proposal defense stage without HMSS PhD Committee approval of the PDP.

The PDP uses the AHRQ (NIH) research proposal format. This is the general outline students should follow when constructing a PDP.

Total page limit: 10 pages, single-spaced, or 20 pages, double-spaced

**Sections**

1. Coversheet and Student Letter (3 pages, single-spaced, or 6 pages, double-spaced)
   - a. Project Title
   - b. Student’s Name
   - c. Chair of committee, committee members, and GSR – provide each member’s area of expertise related to the dissertation. Put line next to each name for signature of approval.
   - d. Areas of knowledge – identify areas of knowledge (content and methods) necessary for successful completion of a dissertation. Discuss how these have been met or will be met through courses, independent study, etc.
   - e. Student letter – should discuss career goals, background, and interest in health services research, and the anticipated manner in which the proposed dissertation will contribute to career goals. List source of funding for research.

2. Specific Aims (1 page, single spaced, or 2 pages, double-spaced)
   - Also list specific hypotheses for each aim. If desired, the overall purpose of this line of investigation may be mentioned in order to indicate the long-term importance of the specific aim being sought through this study.

3. Research Strategy (6 pages, single spaced, or 12 pages, double-spaced) – Section III’s format may be tailored to meet the needs of the specific study being proposed. It could be organized for the study as a whole, for each specific aim, or for each paper to be written. However, the following sub-headings usually apply (major methods should be referenced).
   - a. Significance – Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses. Explain how the proposed project will advance the field and improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields. Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.
   - b. Innovation – Explain how the application challenges and seeks to shift current research or clinical practice paradigms. Describe any novel theoretical concepts, approaches, or methodologies, instrumentation or interventions to be developed or used, and any advantage over existing methodologies, instrumentation, or interventions. Explain any refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation, or interventions.
   - c. Approach - Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Include how the data will be collected, analyzed, and interpreted as well as any resource sharing plans as appropriate. Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims. As part of this section, provide a tentative sequence or timetable for the project.

   Use this section to provide an account of the student’s or committee’s preliminary studies pertinent to the proposed study, summarizing methods and preliminary findings. Relevant publications or manuscripts may be attached in the Appendix. If there are no preliminary studies, please indicate so in a sentence.

4. Protection of Human Subjects (louisville.edu/research/humansubjects)
5. AHRQ Priority Populations
6. References Cited
7. Appendix
   - a. Survey instrument, if applicable

**Dissertation Proposal**

Once approved by the HMSS PhD Committee, the candidate will submit a written dissertation proposal to all members of the dissertation committee. The candidate is then orally examined on the dissertation proposal at a time scheduled by the candidate in consultation with the committee chair and full dissertation committee.

The dissertation is to be prepared in format according to the guidelines of the School of Interdisciplinary and Graduate Studies. The guidelines can be reviewed at the following link: louisville.edu/graduate/current-students/thesis-dissertation-information/thesis-dissertation-guidelines-1. HMSS PhD students do a three-paper dissertation.

**Three-Paper Dissertation Guidelines**

Students will write a three-paper dissertation. The dissertation will include a brief introduction to each of two papers and how they fit together (roughly 10 pages). The research questions submitted and approved within the dissertation proposal will define the subject matter for each of the papers in the dissertation.

Prior to the dissertation defense, at least one of the three papers in the dissertation must be submitted for review to a reputable peer-reviewed journal that is agreed upon by the doctoral candidate’s dissertation committee. The remaining two papers must be of high enough quality that the dissertation committee feels that they can be submitted to a reputable journal, although they do not need to be submitted prior to the dissertation defense.

Each paper must report on original scholarship and address the research questions in the dissertation proposal. One of the papers may consist of a literature synthesis which leads to specification of a conceptual framework for addressing a research question or questions.

Prior to the dissertation defense, the student must specify a target peer-reviewed journal for each and format each according to the chosen
journal’s formatting rules. Each paper is expected to conform to the length requirements for the chosen peer-reviewed journal (typically 25-30 pages in length). Co-authors for each paper should be acknowledged in a “Statement of Contributors” but not included as authors in the dissertation itself. They can be listed as authors when the papers are submitted for publication, but not as authors in the dissertation itself.

The following information is in the current guidelines, please review and advise if you have additional questions or concerns. The information is as follows:

**Published Work**

With the approval of your adviser and your thesis or dissertation committee, you may include part or all of the content of manuscripts published in or accepted for publication by scholarly journals and proceedings as chapters in your thesis or dissertation. If you choose this option, you must:

1. Be a primary author—i.e., lead author—of the articles (i.e., a person principally involved in the data selection or collection, the data analysis or interpretation, and the writing of the papers).
2. Obtain the needed copyright clearance from the publisher—i.e., a letter granting permission to include the journal article in your thesis or dissertation.
3. Include a proper citation to the work, either a footnote or a citation in the reference section of the thesis or dissertation.
4. Format the work so that it conforms to the requirements as specified in “Guidelines for the Preparation and Processing of Theses and Dissertations” (The Guidelines). In other words, the journal publication cannot simply be pasted into the thesis or dissertation in its published format.

The content and format of each paper included may be similar to or the same as what you submit to the journal/proceedings, except the content must comply with the formatting requirements as outlined in The Guidelines. The bibliography or reference section of each article must become part of the final Reference Section in the thesis and dissertation, as stipulated in The Guidelines. There should be only one abstract and one list of acknowledgments for the thesis or dissertation.

If the publisher grants permission for the publication to be used, the publisher will give instructions on how the approval should be documented in the thesis/dissertation. The publisher’s official notice of approval must be formatted accordingly and added as an Appendix. Permission to use previously published material in a thesis or dissertation doesn’t necessarily give the student permission to sell that material. The student may need to put a restriction on the sale and availability of his/her work according to the publisher’s guidelines.

**Dissertation Approval**

The dissertation is to be submitted in completed form to the chair of the department at least thirty days before the end of the term in which the candidate expects to be graduated, and the candidate is not eligible for final defense until the dissertation has been accepted by the committee and chair.

The doctoral candidate will prepare a dissertation document that will include:

1. An introduction of at least 10 pages that summarizes the three papers.
2. The papers themselves (refer to Published Work above).
3. A synthesis section at the end that addresses the implications for practice and research, in non-technical terms, to the extent not addressed in the separate papers.
4. Any additional material, as appendices, that would not usually be part of a journal article (e.g. a survey instrument) but which the dissertation committee deems relevant.
5. Statement of contributions: a statement specifying his/her role and those of others in selecting study questions, designing analyses, identifying appropriate methods, analyzing the data, and writing and reviewing the papers. This statement will be signed by each contributor named.
6. Dissemination plan: this will specify the target peer-reviewed journal for each of the three papers. For each paper that has not been submitted for publication, the student is required to obtain a signature from a faculty member with experience publishing or reviewing for the target journal (or similar ones). The faculty member will sign a statement to the effect that in his/her opinion, the paper is potentially publishable in the journal selected (these signatures will be required by the conclusion of the dissertation defense).

The oral defense is scheduled by the dissertation committee and doctoral candidate. The time and place for the defense is published to the general academic community, members of which are free to attend the defense. The dissertation is approved by a majority vote of the committee and the concurrence of the department chair.

**Evaluation by Dissertation Committee**

Dissertations will be evaluated by the dissertation committee using the following criteria:

- **Extent of the student’s contribution:** The committee should be persuaded that the student played the primary role in the formulation and write-up of the research for all three papers. For example, if a faculty member provided the data, selected the methodology and directed the analyses, the student’s role may not meet the required standard of independence.

- **Eventual publication of the three papers:** The committee should only approve the dissertation if it feels that the three papers are potentially publishable, that is, ready for submission to peer-reviewed journals. Faculty endorsement of the Dissemination Plan will be relevant for this.

- **Papers published before the final defense are acceptable as described below:** In some cases, one or more of the papers may have already been accepted or published by a peer-reviewed journal at the time of the defense. While this satisfies the publication criterion, the committee will still need to evaluate the paper(s) in light of the other criteria, and the paper(s) will need to be reformatted to meet SIGS requirements.

**Dissertation Distribution**

The following steps must be taken to submit the final copy of the thesis electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies.
2. Submit to the School of Interdisciplinary and Graduate Studies as advised by the School of Interdisciplinary and Graduate Studies Thesis/Dissertation Information webpage: louisville.edu/graduate/
The typical progression through the health promotion curriculum is:

1. Program of Study (year 1)
2. Required and elective coursework of 48 credit hours (years 1 and 2)
3. Qualifying examination (year 2)
4. Candidacy
5. Dissertation research and preparation (within 4 years of entering candidacy)
6. Oral examination/dissertation defense

Faculty Advisor
The Director of the PhD program will assign advisors for each doctoral student. Upon matriculation in the program, each student will meet with his or her assigned advisor and develop a program of study, which will include courses in public health theory and principles, research design, and statistics as well as selected cognate courses. The program of study will identify a set of courses for the development of competencies in areas of public health knowledge that are relevant to the student’s area of interest. The program of study may be modified as the student’s needs change or course availability is altered.

Admission Requirements
Applicants should have a minimum GPA of 3.0 on a 4.0 scale and, in most cases, should have completed a master’s or other graduate degree related to the theme of the doctoral program. Applicants who have a master’s degree in a different discipline may be admitted with the stipulation that they complete foundation coursework during their enrollment for the doctoral degree. This coursework is in addition to the outlined curriculum and is negotiated with the student's academic advisor on a case-by-case basis.

- The formal application, curriculum vitae, personal statement, application fee, at least two letters of recommendation, official transcripts of all college work, and official scores on the Graduate Record Examination (GRE) General Test must be submitted to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, louisville.edu/graduate/apply
- The personal statement should be a one-to-two page essay which discusses the student's background in health promotion, why the student is attracted to the field, and how the degree helps the student reach his or her career goals.
- In addition, prior work experience relevant to the health promotion discipline is also considered as a factor in acceptance into the program.
- International students are required to submit TOEFL scores and a foreign credential evaluation of their transcripts. These are required no later than thirty days before the first day of classes of the semester in which the applicant plans to enroll.

For specific information about the degree specialization or the application process, students should contact the Director of the PhD Program, Dr. Muriel Harris, at muriel.harris@louisville.edu or (502) 852-4061, or the Department Chair, Dr. Richard Wilson, at richard.wilson@louisville.edu or (502) 852-3443.

Program Requirements
Upon matriculation in the program, each student meets with his or her assigned advisor and develops a program of study that includes courses in research design and statistics as well as selected cognate courses.
The program of study may be modified as the student’s needs change or course availability is altered.

If a student has not had sufficient exposure to epidemiology prior to matriculation, he or she is required to take a course in epidemiology as part of the program of study. In addition, the program of study includes development of competencies in other areas of public health knowledge that are relevant to the student’s area of interest.

Curriculum

Students with a Master of Public Health (MPH) and those with master’s degrees from other disciplines may be admitted to the PhD program. For those students entering from other disciplines, leveling courses will be required. The leveling courses include the MPH core courses, and they must be completed prior to beginning courses in the student’s PhD degree plan.

The PhD curriculum consists of a minimum of 48 credit hours, at least one semester of teaching, and a dissertation. The degree plan consists of the following:

- Foundational Requirements (15-18 credit hours)
  - Epidemiological Methods (3 credit hours)
  - Theory, Approaches, Planning, & Interventions (6-9 credit hours)
  - Advanced Evaluation (3 credit hours)
  - Policy & Politics (3 credit hours)
- Methods & Statistical Analysis (18-24 credit hours)
  - Advanced Biostatistics (3 credit hours)
  - Measurement (3 credit hours)
  - Quantitative Research Methods (3-9 credit hours)
  - Qualitative Research Methods (3-9 credit hours)
- Teaching (3 credit hours)
- Cognate Area of Study (12-15 credit hours)—determined by faculty advisor
- Dissertation

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<th>Coursework</th>
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<table>
<thead>
<tr>
<th>Foundational Requirements</th>
<th>PHEP 602</th>
<th>Epidemiological Methods or PHEP 618Epidemiologic Methods II</th>
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<tr>
<td>Theory/Approaches/Planning/Interventions (6-9 hours)</td>
<td>PHPB 701</td>
<td>Theoretical Basis of Health Promotion</td>
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<td></td>
<td>PHPB 704</td>
<td>Psycho-Social Foundations of Health Decision Making</td>
</tr>
<tr>
<td></td>
<td>PHPB 705</td>
<td>Community Organizing and Health Policy Advocacy</td>
</tr>
<tr>
<td></td>
<td>HSS 669</td>
<td>Administering Health Promotion and Disease Prevention Programs</td>
</tr>
<tr>
<td>Advanced Evaluation (3 hours)</td>
<td>PHPB 615</td>
<td>Advanced Program Evaluation</td>
</tr>
<tr>
<td>Policy &amp; Politics (3 hours)</td>
<td>PHPB 702</td>
<td>Health Care Law and Politics</td>
</tr>
<tr>
<td>Methods &amp; Statistical Analysis (18-24 credit hours)</td>
<td>PSYC 610</td>
<td>Advanced Statistics I</td>
</tr>
<tr>
<td></td>
<td>SOC 609</td>
<td>Statistics I</td>
</tr>
<tr>
<td>Measurement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHST 645</td>
<td>Health Sciences Data Collection Instrumentation</td>
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<tr>
<td>ECPY 540</td>
<td>Evaluation and Measurement in Education</td>
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<tr>
<td>ECPY 740</td>
<td>Psychometrics and Affective Instrument Development</td>
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<tr>
<td>ELFH 602</td>
<td>Survey Research and Attitude Measurement</td>
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<table>
<thead>
<tr>
<th>Quantitative Research Methods</th>
<th>3-9</th>
</tr>
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<tbody>
<tr>
<td>ECPY 745</td>
<td>Systematic Reviewing and Meta-Analysis</td>
</tr>
<tr>
<td>ECPY 746</td>
<td>Secondary Data Analysis</td>
</tr>
<tr>
<td>ECPY/ELFH 764</td>
<td>Structural Equation Modeling</td>
</tr>
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<td>ECPY/ELFH 765</td>
<td>Hierarchical Linear Modeling</td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics</td>
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<tr>
<td>ELFH 700</td>
<td>Research Concepts and Design</td>
</tr>
<tr>
<td>ELFH 701</td>
<td>Intermediate Applied Statistics</td>
</tr>
<tr>
<td>ELFH 702</td>
<td>Applied Multiple Regression</td>
</tr>
<tr>
<td>ELFH 703</td>
<td>Multivariate Educational Statistics</td>
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<tr>
<td>PHPB 703</td>
<td>Health Promotion Research Methods and Design</td>
</tr>
<tr>
<td>PHPH 630</td>
<td>Geographic Information Systems in Public Health</td>
</tr>
<tr>
<td>PHST 640</td>
<td>Statistical Methods for Research Design in Health Sciences</td>
</tr>
<tr>
<td>PHST 680</td>
<td>Biostatistical Methods I</td>
</tr>
<tr>
<td>PHST 681</td>
<td>Biostatistical Methods II</td>
</tr>
<tr>
<td>PHST 682</td>
<td>Multivariate Statistical Analysis</td>
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<td>PHST 684</td>
<td>Categorical Data Analysis</td>
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<tr>
<td>PHST 704</td>
<td>Mixed Effect Models and Longitudinal Data Analysis</td>
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<tr>
<td>PHST 781</td>
<td>Advanced Linear Models</td>
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<tr>
<td>PHST 782</td>
<td>Generalized Linear Models</td>
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<td>PHST 785</td>
<td>Nonlinear Regression</td>
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<td>PSYC 611</td>
<td>Advanced Statistics II</td>
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<tr>
<td>PSYC 612</td>
<td>Advanced Statistics III</td>
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<td>SOC 610</td>
<td>Statistics II</td>
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<td>SOC 615</td>
<td>Research Methods</td>
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<tr>
<th>Qualitative Research Methods</th>
<th>3-9</th>
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<tbody>
<tr>
<td>PHPB 710</td>
<td>Community Based Participatory Research</td>
</tr>
<tr>
<td>PHPB 711</td>
<td>Qualitative Research Methods in Public Health</td>
</tr>
<tr>
<td>ELFH 704</td>
<td>Qualitative Field Research Methods</td>
</tr>
<tr>
<td>ELFH 705</td>
<td>Qualitative Data Analysis and Representation</td>
</tr>
<tr>
<td>SOC 618</td>
<td>Qualitative Research Methods</td>
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Teaching

<table>
<thead>
<tr>
<th>Seminar-Based Courses</th>
<th>ELFH 683</th>
<th>College Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or ELFH 607</td>
<td>Principles of Educational Leadership</td>
</tr>
<tr>
<td></td>
<td>or ELFH 672</td>
<td>Instructional Design and Development</td>
</tr>
<tr>
<td></td>
<td>or ELFH 661</td>
<td>Adult &amp; Organizational Learning</td>
</tr>
</tbody>
</table>

Practice

Undergraduate/Graduate Teaching Experience
Qualifying Examination

Upon completion of all formal course work, typically at the end of the second year of coursework, students will take a written Qualifying Exam to demonstrate their ability to synthesize and apply concepts from those courses. Results will be given to students within six weeks of completion of the exam. The exam will be evaluated on a pass/fail basis; students who do not pass the exam on their first attempt will be given time to prepare to sit for the exam one additional time. The retake of the exam must be attempted within six months at a regularly scheduled exam date (February, July or October) following the first attempt at the discretion of the specialization and in consultation with the student. If a student fails to pass on the second attempt, the student will be dropped from the program. Once the qualifying exam is successfully completed, students will be admitted to candidacy for the doctoral degree.

Dissertation

A dissertation, based on original research conducted by the student, is required of a candidate for the degree of Doctor of Philosophy in Public Health Sciences with a specialization in Health Promotion. The dissertation is to be a scholarly achievement that demonstrates the student's ability to conduct independent research and a thorough understanding of research principles, concepts, and techniques in health promotion. The dissertation must follow the guidelines of the School of Interdisciplinary and Graduate Studies located at louisville.edu/graduate/current-students/thesis-dissertation-information.

Dissertation Committee

The student's dissertation research will be guided by, and the final product approved by a Dissertation Committee. The Chair of the Committee, who must come from within the department, will be appointed by the Dean of the School of Public Health and Information Sciences upon the advice of the Chair of the Department of Health Promotion and Behavioral Sciences.

The Dissertation Committee shall consist of at least four members to a maximum of six members. The Chair of the Committee and at least one other committee member must be from the department. Additional members should be from outside of the department or school. Students are encouraged to meet with their committee chair regarding prospective committee members who will mentor them throughout this process. A committee member must have a doctoral degree, be credentialed to teach graduate-level courses relevant to the degree, and have recent involvement in research, scholarship, or creative activity within the previous five years. The Dean of Academic Affairs at SPHIS must approve the members to serve on the committee. The Committee will subsequently be approved by the School of Public Health and Information Sciences.

Dissertation Proposal

The student will work with the Dissertation Committee, and especially with the Chair throughout the process of preparing their Dissertation Proposal. The student will schedule meetings to present their dissertation proposal for approval once it has been review by members of the committee. The final oral defense of the dissertation must be completed within four years of entering candidacy after passing the Qualifying Exam.

Dissertation Defense

Once the student has completed work on the dissertation, the student will schedule a date with his/her Dissertation Committee for the final oral examination during which the student will defend the dissertation. The dissertation must be approved by the committee and the Chair of the Department by majority vote before it can be submitted to the School of Interdisciplinary and Graduate Studies. The defense is a public event to which members of the University community will be invited as well as those the student worked with on the project.

Dissertation Preparation

The dissertation copy must follow the guidelines of the School of Interdisciplinary and Graduate Studies located at louisville.edu/graduate/current-students/thesis-dissertation-information.

Dissertation Submission

The following steps must be taken to submit the final copy of the dissertation electronically after oral defense and approval of the committee:

1. Final document must be converted to a PDF (following the guidelines as noted above) and sent to the School of Interdisciplinary and Graduate Studies and the department's administrative assistant.
2. Submit as advised by the School of Interdisciplinary and Graduate Studies through the ThinkIR repository.
3. The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.
4. Submit a signed signature page on white paper, with original signatures, to the School of Interdisciplinary and Graduate Studies.

Public History (CERT)

Graduate Certificate in Public History (PHISCHI)

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: History (http://louisville.edu/history)
Program Webpage (http://louisville.edu/history/graduate-studies/graduate-certificate-in-public-history)

Program Information

The graduate certificate in Public History is a specialized program of study that trains students for careers in museums, archives, historical interpretation, and historic preservation. Students may pursue the certificate either in combination with a Master of Arts in History (or a closely related field) or as an independent credential.

Students enrolled in the program take seminars in history and electives in history and related fields. All students are required to complete an internship at a historical institution.

Admission Requirements

Students seeking the certificate as a stand-alone program should apply at louisville.edu/graduate/apply. Create an account. When asked to
choose a program, select "Graduate - non-degree." On the next page, select "College of Arts and Sciences," then "Public History (CHI)."

The following materials are required for the certificate program:

- Two letters of recommendation
- Undergraduate transcripts
- GRE scores
- Personal statement of interest in public history (500 words)
- Application fee

History MA students who wish to enroll in the certificate program must complete the online application (see link above) and submit:

- A letter of recommendation from a UofL faculty member
- A personal statement of interest in public history.

All materials from applications for the MA program will also be considered.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 597</td>
<td>Introduction to Public History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 608</td>
<td>Practicum in Public History (Internship)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Two 600-level non-public history courses in the Department of History</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Two public history electives at the 500 level or above</td>
<td>6</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**

Students in the MA program in History may apply up to six (6) credit hours from the degree program toward the Public History certificate.

Sample of public history electives:

- HIST 607 Oral History
- HIST 610 Introduction to Historic Preservation
- ARTH 647 Introduction to Critical and Curatorial Studies I and ARTH 648 Critical and Curatorial Studies II
- PADM 609 Nonprofit Management

**Real Estate Development (CERT)**

**Graduate Certificate in Real Estate Development (RED CRE)**

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)

Department: Urban and Public Affairs (https://louisville.edu/upa)

Program Webpage (http://catalog.louisville.edu/graduate/programs-study/graduate-certificate-real-estate-development/louisville.edu/upa/programs/gcred)

**Program Information**

The Department of Urban and Public Affairs offers a Graduate Certificate in Real Estate Development designed to equip graduates with the skills needed to make better real estate decisions with respect to investment considerations and site analysis and planning. The program will be particularly attractive to Urban Planning students desiring to work in the private sector; however, the program will also be appealing to students enrolled in other graduate programs at the university or who wish to complete the certificate on a stand-alone basis.

The program may be completed in conjunction with the Master of Urban Planning program without the need to take any additional coursework beyond what is required for the MUP program. For MUP students, the certificate courses satisfy the requirements for the specialization in Housing and Community Development.

**Admission Requirements**

Applicants must have a bachelor’s degree (any major is acceptable), and provide a completed application form, a transcript of all undergraduate work, and two letters of recommendation.

Admission is competitive and generally requires a minimum undergraduate GPA of 3.00. Those applicants whose native language is not English and who do not hold a degree from a university where the language of instruction is English must complete the Test of English as a Foreign Language (TOEFL) with a score of at least 78 on the internet-based test.

**Program Requirements**

The program requires 18 credit hours, and may be completed in one year as a full-time student or up to four years as a part-time student. Courses may be waived by the Program Coordinator based on previous study; however, substitute course work will be required.

The following 3 credit hour courses are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 605</td>
<td>Land Use &amp; Planning Law</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 614</td>
<td>Real Estate Market Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 631</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 633</td>
<td>Real Estate Development</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 634</td>
<td>Real Estate Finance and Investment</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 636</td>
<td>Site Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**

Generally, PLAN 631 should be completed prior to PLAN 634 and PLAN 633. PLAN 633, which serves as a capstone course for the program, should be taken in the final semester or year of study.

Although the program does not require an internship, students who are also in the MUP program may wish to complete the required planning internship by working in a real estate development firm.

**School Social Work (RANK1)**

**Rank 1 Program in School Social Work (SW_RK1)**

Unit: College of Education and Human Development (https://louisville.edu/education) (GE)

Department: Special Education (https://louisville.edu/education/departments/sped)

Program Webpage (https://louisville.edu/education/degrees/rank)

**Program Information**

*Rank 1 programs are not degree programs.*

The Rank 1 program in School Social Work includes the School Social Work Specialization. It is designed for the Advanced Practitioner P-12.

Rank 1 programs are planned graduate level programs designed for Kentucky teachers seeking rank change for salary purposes. They are recognized only in the state of Kentucky. By state regulation, Rank 1
status is sixty (60) credit hours of approved graduate credit including a master’s degree.

Admission Requirements

Students in this Rank-1 program are required to satisfy/provide the following:

- Admission to School of Interdisciplinary and Graduate Studies
- Signed Professional Code of Ethics/Technology User Agreement
- Completion of Official Program along with School Social Work Specialization program sheet.

Students may apply to the program by first going to the School of Interdisciplinary and Graduate Studies (http://graduate.louisville.edu/sigs/apply) website. Admission requirements include the following credentials:

- Teaching certificate
- TOEFL (Students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement.)
- There may be additional admission requirements, depending on the Rank I program that you select. Please contact the Teaching and Learning Department for specific information.
- Official transcripts with a GPA of 2.75 in the Bachelor’s degree and a GPA of 3.0 in the Master’s degree.
- Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.

Please have transcripts sent to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
University of Louisville
Louisville, KY 40292

If transcripts are sent electronically, please have them sent to gradadm@louisville.edu.

Contact information:
Kent School of Social Work
Dr. Andy Frey (502) 852-0431
or CEHD Education Advising and Student Services (502) 852-5597

Certification Requirements

<p>| Rank I Program in School Social Work |
|-------------------------------|----------------|</p>
<table>
<thead>
<tr>
<th><strong>Code</strong></th>
<th><strong>Title</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 668</td>
<td>Advanced Research Practice I</td>
</tr>
<tr>
<td>SW 669</td>
<td>Advanced Research Practice II</td>
</tr>
<tr>
<td>EDSP 652</td>
<td>Academic and Behavior Response to Intervention</td>
</tr>
<tr>
<td>ECPY 740</td>
<td>Psychometrics and Affective Instrument Development</td>
</tr>
</tbody>
</table>

Minimum Total Hours 33

Exit Requirements

Hallmark Assessment Task for EDSP 669 or equivalent project that demonstrates proficiency in the Advanced-Level Kentucky Teacher Standards.

Course project must address all of the Advanced-Level Kentucky Teacher Standards. Successful completion of portfolio.

Additional Requirements

A minimum of 15 credit hours of 600-level courses is required. Up to 15 credit hours of graduate credit may be transferred to the Rank I program, as long as the student will have completed 60 credit hours of approved graduate credit.

Including a master’s degree at the end of the Rank I program: transfer credit must be officially accepted by the advisor and final acceptance is dependent upon receipt of official transcripts.

In the Rank I program at least 15 credit hours of new graduate coursework must be taken at the University of Louisville.
To complete the program, students must have a minimum 3.0 cumulative grade point average. No credit shall be accepted for carrying a grade lower than a B-minus.

Some courses are required for students completing the School Social Work Specialization and Rank I program.

This degree program sheet must be accompanied by a signed School Social Work specialization program sheet as well.

1 One of these courses in the Diversity section must be completed for School Social Work Specialization
2 Courses are required for students completing the School Social Work Specialization and Rank I program.

Secondary Education (RANK1)

Rank 1 Program in Secondary Education (SE RK1SAP)
Unit: College of Education and Human Development (https://louisville.edu/education) (GE)
Department: Middle and Secondary Education Department (https://louisville.edu/education/departments/mise)
Program Webpage (https://louisville.edu/education/degrees/rank)

Program Information

Rank 1 programs are not degree programs.

Rank 1 programs are planned, graduate-level programs designed for Kentucky teachers seeking rank change for salary purposes. They are recognized only in the state of Kentucky. By state regulation, Rank 1 status is sixty (60) hours of approved graduate credit including a master’s degree.

Teachers who complete a Rank 1 program may obtain a Rank change for salary purposes in Kentucky. Through a Rank 1 program, teachers may increase their depth of knowledge in their teaching areas or in additional areas of certification, as appropriate.

Admissions Requirements

Students may apply to the program by first going to the School of Interdisciplinary and Graduate Studies (http://graduate.louisville.edu/sigs/apply) web site.

Admission requirements include the following credentials:

- Official transcripts with a GPA of 2.75 in the Bachelor’s degree and a GPA of 3.0 in the master’s degree.
- Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services) (http://wes.org) or ECE (Educational Credential Evaluators) (http://ece.org). Please note that transcript evaluations can sometimes take several weeks.
- TOEFL (Students holding a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement.)
- Teaching certificate in grades 8-12, P-12, or 5-12 and a master’s degree/Rank II
- Signed Professional Code of Ethics/Technology User Agreement

Please have transcripts sent to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
University of Louisville
Louisville, KY 40292

If transcripts are sent electronically, please have them sent to the following email: gradadm@louisville.edu

Rank 1 Program in Secondary Education
Advanced Practitioner
(For students who have earned a master’s degree)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP</td>
<td>Education Research in P-12 Setting</td>
<td>3</td>
</tr>
<tr>
<td>ELFH</td>
<td>Applied Statistics (or research course equivalency approved by advisor)</td>
<td></td>
</tr>
</tbody>
</table>

Advocacy

Leadership (Professional Leader)

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP</td>
<td>Curriculum Theory</td>
<td>3</td>
</tr>
<tr>
<td>EDAP</td>
<td>Using Assessment to Improve Student Achievement</td>
<td></td>
</tr>
<tr>
<td>EDAP</td>
<td>Developing Collaborative Groups: Facilitating, Coaching and Mentoring</td>
<td></td>
</tr>
<tr>
<td>ELFH</td>
<td>Shaping School Culture and Community</td>
<td></td>
</tr>
</tbody>
</table>

Diversity

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP</td>
<td>Teaching English Learners in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDAP</td>
<td>Instructional Strategies for Diverse Learners</td>
<td></td>
</tr>
<tr>
<td>EDAP</td>
<td>Literacy Learning and Cultural Differences</td>
<td></td>
</tr>
<tr>
<td>EDTP</td>
<td>Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds</td>
<td></td>
</tr>
</tbody>
</table>

Area of Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP</td>
<td>Teacher Leadership in Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours

| Minimum Total Hours | 30 |

Minimum of 15 credit hours in 600-level courses is required.

Up to 15 credit hours of graduate credit may be transferred to the Rank 1 program, as long as the student will have completed 60 credit hours of approved graduate credit including a master’s degree at the end of the Rank 1 program. Transfer credit must be officially accepted by the advisor and final acceptance is dependent upon receipt of official transcripts.

In the Rank 1 program, at least 15 credit hours of new graduate coursework must be taken at the University of Louisville.

To complete the program, students must have a minimum 3.0 cumulative grade point average. No grade lower than B-minus will be accepted.

Midpoint Requirement

Candidates are required to submit a mid-point performance assessment at the completion of 15 credit hours of coursework. The faculty advisor
will assess the candidate’s performance assessment, which must be at the exemplary or target level. The performance assessment must address content, classroom environment, teaching, assessing, and reflection, through an artifact (such as a video), to document professional learning.

Exit Requirements: Hallmark Assessment Task to be completed in EDAP 681 or equivalent project that demonstrates proficiency in the Kentucky Academic Standards.

Secondary Education (MAT)

Master of Arts in Teaching in Secondary Education (SE MAT)
Unit: College of Education and Human Development (https://louisville.edu/education) (GE)
Department: Middle and Secondary Education (https://louisville.edu/education/departments/mise)
Program Webpage (http://catalog.louisville.edu/graduate/programs-study/master-arts-teaching-secondary-education/louisville.edu/education/degrees/mat-se)

Program Information

The Master of Arts in Teaching (MAT) degree in Secondary Education leads to certification in:

- Biology
- Chemistry
- Earth & Space Science
- English
- Mathematics
- Physics
- Social Studies Education (grades 8-12)
- Business Education (grades 5-12)
- World Language Education (Spanish and French) (grades P-12)

Admission Requirements

Candidates considering application to the MAT program should contact the Education Advising and Student Services office (teacher@louisville.edu) prior to applying for admission.

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program:

1. Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Minimum Test Scores (http://louisville.edu/education/degrees/info/gre-mat) as required by EPSB
   Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. Praxis II (http://louisville.edu/education/degrees/info/mat-mse-praxis-ii) Content Exam registration and/or scores
4. Bachelor’s Degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with major in content area with a minimum 2.75 Grade Point Average (official transcripts required)
5. Prerequisite Course Requirements (http://louisville.edu/education/degrees/info/mat-mse-prereq)
6. "C" or higher in English 102
7. "C" or better in oral communication course
8. TOEFL (http://louisville.edu/education/degrees/info/toefl)
9. Professional (http://louisville.edu/education/degrees/info/mat-mse-professional-statement)
10. 3 Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)
12. Acceptable interview

Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTP 602</td>
<td>Exploring Teaching in the Sociopolitical Contexts of P-12 Schools</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 501</td>
<td>General Methods</td>
<td>3</td>
</tr>
<tr>
<td>ECPY 607</td>
<td>Learning Theory and Human Growth and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The above three courses must be completed prior to the Content Methods course

Content Methods, choose one from the following courses: 3

- EDTP 622 | High School English Methods                               | 3     |
- EDTP 623 | High School Mathematics Methods                           | 3     |
- EDTP 624 | High School Science Methods                               | 3     |
- EDTP 625 | High School Social Studies Methods                        | 3     |
- EDTP 628 | Business/Marketing Methods, 5-12                          | 3     |
- EDTP 629 | World Language Methods, P-12                              | 3     |
- EDSP 545 | Exceptional Children in the Regular Classroom (taken concurrently with Content Methods course) | 3     |

Mid-point Assessment

- EDTP 619 | Student Teaching: High School                             | 6     |
- EDTP 618 | Student Teaching: Middle and High School                  | 6     |
- EDTP 612 | Student Teaching: P-12                                    | 6     |
- EDTP 677 | Capstone Seminar: Initial Certification                   | 3     |
- EDTP 503 | Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds | 3     |
- EDTP 620 | Reading and Writing Across the Curriculum                 | 3     |
- EDTP 580 | Digital Citizenship: Technology and Teaching              | 3     |
- EDTP 581 | Technology Applications for Mathematics Teaching          | 3     |
- EDTP 582 | Technology Applications for Science Teachers              | 3     |

Minimum Total Hours 36

Mid-Point Assessment: Prior to Student Teaching

Satisfactory dispositions assessment; No lower than 2.0 in content methods class; within 3 credits of meeting content requirements; ECPY 607 and EDTP 501, EDTP 602, and content methods courses passed; satisfactory mid-point teacher performance assessment
considering application to the MAT program should contact the Master of Arts in Teaching, Alternative Certification program. Candidates who meet the following criteria may be eligible to apply to the program.

**Admission Requirements**

Candidates meeting the following criteria may be eligible to apply to the Master of Arts in Teaching, Alternative Certification program. Candidates considering application to the MAT program should contact the Education Advising and Student Services office (teacher@louisville.edu) prior to applying for admission. Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

1. Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Minimum Test Scores (http://louisville.edu/education/degrees/info/gre-mat) as required by EPSB
   Please note: when submitting test scores through ETS, use the University of Louisville code, 1838.
3. Passing scores on Praxis II Content Exam(s) (http://louisville.edu/education/degrees/info/mat-ac-praxis-ii)
4. Bachelor’s Degree (http://louisville.edu/education/degrees/info/bachelors) in content area from Accredited College or University with a Minimum 2.75 Grade Point Average (official transcripts (http://louisville.edu/education/degrees/info/transcripts) required)
5. Prerequisite Course Requirements (http://louisville.edu/education/degrees/info/mat-mse-prereq) — Applicants may apply to the program with up to six credit hours of content remaining to complete.
6. C or better in ENGL 102 (or equivalent)
7. C or better in oral communication course
8. TOEFL (http://louisville.edu/education/degrees/info/toefl)
9. Professional (http://louisville.edu/education/degrees/info/mat-mse-professional-statement)
10. Three (3) Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)
11. Experience working with diverse groups of children/adolescents
13. Acceptable interview

**Program Requirements**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDTP 631</td>
<td>Integrated Teaching and Learning I</td>
<td>3</td>
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<tr>
<td>EDTP 632</td>
<td>Integrated Teaching and Learning II</td>
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<tr>
<td></td>
<td>Choose one methods course from the following:</td>
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<td>EDTP 622</td>
<td>High School English Methods</td>
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<td>Business/Marketing Methods, 5-12</td>
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<td>World Language Methods, P-12</td>
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<td>Integrated Teaching and Learning III</td>
<td>3</td>
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<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
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</tbody>
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**Mid-Point Assessment**

1. Must be taken concurrently with student teaching
2. Can be taken at any point in the program

**Degree Candidacy**

Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

**Praxis Disclaimer**

Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or ets.org/praxis/ky (http://www.ets.org/praxis/ky) for current requirements.

**Secondary Education - Alternative Certification 8-12 (MAT)**

Master of Arts in Alternative Route to 8-12 Certification in Secondary Education (SE MAT)

Unit: College of Education and Human Development (https://louisville.edu/education) (GE)

Department: Teaching Health and Physical Education

Program Webpage (https://louisville.edu/education/degrees/mat-ac)

**Program Information**

The Alternative Certification program is designed to assist the local school districts in meeting the demand for qualified teachers in high need content areas. The program provides candidates with an opportunity to pursue initial teacher certification while working as a full-time teacher on a temporary provisional certificate.

Employment is not required for initial acceptance to this program. However, candidates must be employed in a Kentucky-accredited school by the start of the school year in order to continue in the program. This program is a two-year, 30-credit hour program resulting in initial teacher certification and a Master of Arts in Teaching degree.

**Certification Assessment: After Student Teaching**

Satisfactory dispositions assessment; all certification course work completed with 2.5 cumulative GPA; 2.5 cumulative GPA in content course requirements; 2.0 or higher in student teaching; satisfactory certification teacher performance assessment (TPA); passing scores on PRAXIS content and PLT exams; positive recommendation from Middle/Secondary Program Committee.

**Degree Assessment**

Satisfactory dispositions assessment; all program course work completed with 3.0 cumulative GPA (and no more than a total of two C grades in degree courses); satisfactory certification teacher performance assessment (TPA).

**Secondary Program Webpage**

https://louisville.edu/education/degrees/info/mat-ac

**Certification 8-12 (MAT)**

**Program Requirements**

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EDTP 678  Supporting the Second Year Alternative Certification Teacher I  3
EDTP 679  Supporting the Second Year Alternative Certification Teacher II  3

Minimum Total Hours  30

Certification Assessment: Satisfactory dispositions assessment; satisfactory certification teacher performance assessment (TPA); passing score on 8-12 PLT Praxis exam; must pass KTIP.

Degree Assessment: Satisfactory dispositions assessment; all program coursework with 3.0 cumulative GPA (and no more than a total of two grades of C in degree courses); satisfactory Alternative Certification degree teacher performance assessment (TPA).

Degree Candidacy: Students who are not enrolled during the semester in which they are graduating must register for degree candidacy as outlined in the Graduate Catalog, under the section called academic policies and requirements.

Praxis Disclaimer: Teacher certification requirements are subject to change. Before registering for the test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or ets.org/praxis/ky (http://www.ets.org/praxis/ky) for current requirements.

1 Completion of all courses listed above; satisfactory dispositions assessment; no lower than 2.0 GPA in content methods class(es); 2.0 or higher GPA in Practicum for Alternative Certification; 2.50 cumulative GPA in content course requirements; passing scores on 8-12 PLT Praxis exam; satisfactory mid-point teacher performance assessment (TPA); positive recommendation from Middle/Secondary Program Committee.

Social Work (MSSW)

Master of Science in Social Work (SW MSW)
Unit: Kent School of Social Work (GK) (http://louisville.edu/kent)
Department: Social Work (http://louisville.edu/kent)
Program Webpage (https://louisville.edu/kent/academics/master-of-science-in-social-work)

Program Information
This program has degree options that can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/masters/master-of-science-in-social-work).

Accreditation of the MSSW
The Master of Science in Social Work program is accredited by the Council on Social Work Education (CSWE). The Master of Science in Social Work, concentration in Couple and Family Therapy program is accredited by the Commission on Accreditation for Marriage and Family Education.

General Information
The Kent School of Social Work seeks to prepare well-qualified social workers who practice from a strong professional value-base to serve the metropolitan mission of the university. Our graduates promote social justice through their practices with diverse client systems. In the context of a research institution, the Kent School is committed to knowledge development that informs social work practice, recognizing the importance of interdisciplinary collaboration to solve complex social problems.

Social work is a profession concerned with the prevention and amelioration of social problems and the enhancement of the quality of human life. Social workers achieve these goals through direct practice with individuals, families, groups, and community organizations; advocacy; social planning; social policy analysis and formulation; research; and administration. Social work practice helps people mobilize their resources to deal with present circumstances and to enlarge their prospects for the future. Since problems of the individual cannot be seen in any meaningful way in isolation from the broad social and community context in which they occur, social work also takes a leadership role in bringing about institutional and social change.

MSSW Dual Degree Programs (not available to online students)
The Kent School also offers joint degrees with the Brandeis School of Law at the University of Louisville (MSSW/JD), the Louisville Presbyterian Seminary (MSSW/MDiv), the Department of Pan-African Studies at the University of Louisville (MSSW/MA) and the Department of Women’s and Gender Studies at the University of Louisville (MSSW/MA) and the Department of Philosophy/Medical Humanities and Bioethics (MSSW/MA). Applications must be submitted independently to each academic unit/institution. In general, these programs require that the student take additional coursework, take the three MSSW electives in the other degree program and take a targeted advanced practicum that has the focus of and is approved by the other degree program.

For more complete descriptions of these programs, please refer to the prospective students link at the Kent School website: louisville.edu/kent.

MSSW/Master in Divinity
The joint MSSW/MDiv program recognizes the value of professional education in two interrelated fields and encourages students who have an interest in both ministry and social work to pursue these degrees simultaneously. A student may enter the dual degree program from social work or theology.

MSSW/Juris Doctor
The dual MSSW/JD program recognizes the value of interdisciplinary study and encourages students having an interest in both social work and law to pursue these degrees simultaneously. Social workers and lawyers often seek to address identical or related societal concerns, albeit from different perspectives; understanding both disciplines enhances one’s effectiveness in both professional capacities. Law courses strengthen the social worker’s understanding of legal doctrine.
and structures that have an impact on social institutions and human conditions; social work courses help lawyers to better understand human behavior, conflict resolution and social welfare institutions.

**MSSW/MA in Pan-African Studies**

The dual MSSW/MA in Pan-African studies program recognizes the value of professional education in two interrelated fields and encourages students who have an interest in both Pan-African Studies and Social Work to pursue these degrees simultaneously. Social workers and Pan-African studies scholars often seek to address identical or related societal concerns, albeit from different perspectives; understanding both disciplines enhances one's effectiveness in both the analysis of and engagement with contemporary social and cultural issues. Pan-African Studies courses strengthen the social worker's understanding of the historical foundations for policies and structures that have an impact on social institutions and human conditions; social work courses help Pan-African scholars or activists to better understand human behavior, conflict resolution and social welfare institutions. A Pan-African Studies and Social Work combination provides the tools of social change for a historic problem of racial injustice.

**MSSW/MA in Women's and Gender Studies**

The dual MSSW/MA in Women's and Gender Studies program recognizes the value of professional education in two interrelated fields and encourages students who have an interest in both Women's and Gender Studies and Social Work to pursue these degrees simultaneously. Social workers and Women's and Gender Studies scholars often seek to address identical or related societal concerns, albeit from different perspectives; understanding both disciplines enhances one's effectiveness in both the analysis of and engagement with contemporary social and cultural issues. Women's and Gender Studies courses strengthen the social worker's understanding of the historical foundations for policies and structures that have an impact on social institutions and human conditions; social work courses help Women's and Gender Studies scholars or activists to better understand human behavior, conflict resolution and social welfare institutions. A Women's and Gender Studies and Social Work combination provides the tools of social change for a historic problem of gender inequality and injustice.

**MSSW/MA in Bioethics and Medical Humanities**

The dual MSSW/MA in Bioethics and Medical Humanities degree program focuses on providing our social work graduates a contextual experience within the interdisciplinary fields that comprise bioethics in addition to the development of social work skills. Bioethics is an inherently interdisciplinary field, located principally at the intersection of philosophy, the law, and the health care professions, such as clinical medicine and nursing, but drawing as well from social science disciplines as diverse as sociology, clinical psychology, and social work. In addition to any career options presented by the MSSW, degree holders may then participate in hospital ethics committees, teach medical ethics and humanities, or be prepared for future doctoral-level work in medical ethics and humanities.

**MSSW Concentrations**

The Kent School offers the opportunity to earn a concentration in Couple and Family Therapy, School Social Work, Alcohol and Drug Counseling, Gerontology, Mental Health, Psychosocial Oncology or Military Social Work while obtaining the MSSW degree. In general, these programs require the student to take prescribed electives specific to the concentration, take a targeted advanced practicum, and participate in an integrative seminar or supervision with the concentration cohort. With the exception of the CFT concentration, students are only eligible to apply to concentrations when they are applying for their advanced year of the program.

For a complete description of the following concentrations, please refer to the prospective students link at the Kent School website: louisville.edu/kent

**Couple and Family Therapy Concentration (CFT, formerly MFT) --not available to online students**

Students may complete the Concentration in Couple and Family Therapy program as part of the MSSW degree. The program prepares students for clinical practice with families in the context of their communities, particularly those families who are disadvantaged and/or typically underserved. Completion of the program prepares students for licensure as a couple and family therapist in Kentucky and for clinical membership in the American Association for Marriage and Family Therapy. The MSSW-CFT concentration requires 21 graduate credit hours in addition to the 60 credit hours required for the MSSW.

Only a limited amount of students can be admitted to this concentration; for more information on application specifics, prospective students should access the program's website: louisville.edu/kent/academics/concentrations/couple-and-family-therapy.

**School Social Work Concentration --not available to online students**

MSSW students who want to practice social work in a school setting can earn a school social work concentration within the Kent School master’s curriculum. Students who select this concentration learn how to help children and families overcome barriers to learning through home intervention. Those who complete the concentration meet the Kentucky Council on Teacher Education’s requirements for certification as a school social worker. Students are eligible to apply only when applying to the 30-credit hour advanced standing program or if in the 60-credit hour program, during the December before their advanced year of the program.

**Alcohol and Drug Counselor Concentration**

Substance abuse is widely recognized as one of the top health problems in the USA and is attracting increasing attention and funding. However, there is an identified shortage of qualified addiction counselors--and students who prepare themselves for a career in chemical dependency can hope to gain immediate employment after graduation, and possibly before. In this regard, students should be aware of a professional certification, the Certified Alcohol and Drug Counselor (CADC) certification, that is valued by addiction treatment agencies with comparable respect and compensation as the Licensed Clinical Social Work (LCSW) qualification. For those who are interested in initiating their careers in a clinical substance abuse treatment setting, they can begin to fulfill specialized requirements of the CADC certification while completing normal requirements of the MSSW program. The Kent School's alcohol and drug concentration will 1) satisfy many of the requirements of the CADC program, 2) teach specialized knowledge and skills, 3) provide formal recognition of students’ specialized knowledge, 4) position students for employment and advancement in a broad array of specialized substance abuse roles, and 5) include specialized faculty mentoring and suggestions on finding employment.

Students are eligible to apply only when applying to the 30-credit hour advanced standing program or if in the 60-credit hour program, during the December before their advanced year of the program.
Gerontology Concentration
The nation’s burgeoning aging population is increasing the demand for well-trained and competent social workers to respond to the needs of older adults and their families. The US Department of Labor reports that geriatric social work is one of the most rapidly growing occupations, with the promise of job security. Start-up funding for this concentration was provided by the John A. Hartford Foundation, the New York Academy of Medicine and Social Work Leadership Institute, through a nationally known Practicum Partnership Program centered on competency-focused leadership education and rotation field practicums with community experts. Kent School was one of a handful of programs nationwide selected to be a part of this exciting initiative.

Mental Health Concentration
The mental health concentration prepares students to enter into the mental health field by focusing on theoretical perspectives regarding the course and etiology of mental illness, diagnostic and assessment skills, evidence-based approaches, knowledge of mental health services, policies, and programs in the context of social work practice and values. Students complete their advanced practicum rotation in a mental health setting providing the opportunity to build collaborative and interdisciplinary skills and professional identity by integrating knowledge with an intricate understanding of mental health practice, policy and service delivery.

Students are eligible to apply only when applying to the 30-credit hour advanced standing program or if in the 60-credit hour program, during the December before their advanced year of the program.

Psychosocial Oncology Concentration
The Kent School of Social Work offers the first concentration in psychosocial oncology in the nation. The high rate of cancer on local, national, and global levels and the potential shortage of oncology social workers are creating the demand for skilled practitioners. Responding to the growing need for social workers who are trained in cancer care, this program will prepare students with the knowledge and skills for meeting the psychosocial health needs of persons with cancer and their families. Students will learn how to apply skills such as assessment, counseling, palliative care, program planning and evaluation in cancer care settings. Our students work in a variety of health settings in the full range of care for cancer patients.

Students are eligible to apply only when applying to the 30-credit hour advanced standing program or if in the 60 credit hour program, during the December before their advanced year of the program.

MSSW Admission Requirements
Admission to the Kent School of Social Work MSSW program is competitive. The selection process includes an evaluation of each applicant’s demonstrated and potential abilities as a student, practitioner and leader in the social work field. Applicants should utilize the MSSW Application Checklist to ensure that all application requirements are met and relevant deadlines are met which can be found on the MSSW Admissions page of Kent’s website louisville.edu/kent. Attending an MSSW prospective student session is beneficial and will likely assist applicants in strengthening their application. Please consult the Kent School website for a list of scheduled prospective student sessions.

An undergraduate GPA of 3.0 is recommended for consideration to the MSSW program.

Applicants to the MSSW program must meet the following requirements:

1. A bachelor’s degree from a regionally accredited institution of higher learning
2. A minimum of 27 credit hours in the social sciences, i.e., communications (6), natural sciences (3), humanities (9), and social sciences (9)

The application file is complete when all of the following are received by the School of Interdisciplinary and Graduate Studies, Graduate Admissions:

1. Graduate Admission application. Application forms are available online at louisville.edu/graduate/apply and a non-refundable application processing fee. It is suggested that you apply online at the above website and pay your application with a credit card or electronic check. If you submit a hard copy application, attach a personal check, money order or cashier’s check payable to the University of Louisville. Note: Paying your application fee with a check will delay the process for 8 days.

2. Official academic transcripts are required from every college/university you have attended, including those at which you were enrolled for academic credit as a non-degree student and/or credits which you transferred to another college. All transcripts must bear the official seal and signature of the institution attended. You must request these transcripts directly from the Registrar or appropriate officer of each institution and ask that they send them directly to Graduate Admissions, University of Louisville, Louisville, KY 40292. If you are a University of Louisville graduate, your UofL transcript will be provided automatically, with no request needed from you. Applicants with a cumulative grade point average less than 2.75 are required to submit an acceptable Miller Analogies Test (MAT) score or an acceptable Graduate Record Exam (GRE) score with their application. Dates of MAT tests and test links to the GRE are available at louisville.edu/testing.
3. Advanced Standing Admissions: Applicants who obtained a BSW within the last 7 years from an undergraduate social work program accredited or in candidacy by CSWE with a cumulative GPA of 3.00 and a social work GPA of 3.25 may be eligible to apply to the Advanced Standing 30 credit hour program. BSW applicants with less than a cumulative 3.0 GPA and a social work GPA of less than 3.25 will rarely be considered for the 30 credit hour program and will rarely be allowed to transfer social work coursework from their undergraduate degree toward their MSSW degree. Additionally, if an Advanced Standing applicant received a grade of C or lower in any social work foundation courses as a BSW, they may be asked to retake these courses by the Admissions Committee as a condition of admission. Applicants who wish to be considered for 30 credit hour Advanced Standing program must submit their BSW Final Practicum Field Evaluation (or a fall final evaluation if currently in the BSW program) and 1 of their 3 letters of recommendation must be from their Director of Field Education, on-site practicum supervisor or practicum seminar instructor. If applying to a concentration, the concentration essay must be submitted at the time of application as well by the early December deadline.

4. Writing Samples - Writing samples should answer both #1 and #2 prompts separately, be double-spaced and in 12pt Times New Roman font, and have page numbers. If possible, please save your Writing Sample as a PDF prior to submitting.

1. Analyze a social problem and discuss the scope of the problem, populations affected, the causes and consequences of the problem, as well as strategies for addressing the problem. Please cite references and limit the essay to 1 ½ pages. Note: essays are subject to plagiarism software review.

2. The NASW Code of Ethics (https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English) includes the following statement: “Social workers treat each person in a caring and respectful fashion, mindful of individual differences and cultural and ethnic diversity. Social workers promote clients’ socially responsible self-determination. Social workers seek to enhance clients’ capacity and opportunity to change and to address their own needs. Social workers are cognizant of their dual responsibility to clients and to the broader society. They seek to resolve conflicts between clients’ interests and the broader society’s interests in a socially responsible manner consistent with the values, ethical principles, and ethical standards of the profession.”

Discuss how your personal values and beliefs are or are not compatible with this professional standard. How will you reconcile any conflicts between your personal values and the requirement of the profession? Please limit this essay to 1 ½ pages.

3. For Advanced Standing Students (30 credit hour) applying to a concentration: Write a separate 2-3 page essay following the Writing Sample that discusses your interest in the concentration, past experience, need for professional development, and how it will further your educational goals.

5. CFT concentration applicants (on-campus applicants only): Please see additional essay requirements on the CFT section of Kent's website (https://louisville.edu/kent/academics/couple-and-family-therapy) and email danette.baker@louisville.edu (Danette.Baker@louisville.edu) with questions.

6. MSSW Agreements Packet that is completed and signed which includes the following agreements:
   a. Academic Dishonesty Statement
   b. Release and Waiver
   c. Ethical Standards of Behavior Agreement
   d. Personal Commitment and Synchronous Class Agreement
   e. Technology Agreement
   f. Practicum Agreement
   g. Title IX and Clery Act Acknowledgment
   h. SONIA Practicum Site Authorization All forms must be completed and signed (electronic signature is acceptable).
   i. All forms must be completed and signed (electronic signature is acceptable). Agreements Packet can be found here: www.louisville.edu/kent in the MSSW Admissions section. It should be emailed to gradadm@louisville.edu

7. Resume: Please include current/past employment as well as volunteer and service roles served. This can be emailed to gradadm@louisville.edu after you have submitted your online application.

8. Addendum to Writing Sample: Submit an Addendum if you if there are gaps or deficiencies in your academic record or if you have ever had an academic review, please explain (recommended for all applicants with a GPA of 3.0 or less)

9. Three recommendation letters: List email addresses of three (3) recommenders in Section VII of the graduate application. Recommendation forms will be emailed automatically to the recommenders only after the application fee is paid or waived. The printable form is shown as “Letter of Evaluation (PDF)” is available at louisville.edu/graduate/apply.

   • One recommendation form must be from a former professor. Applicants who have not been enrolled in classes within the past five (5) years must substitute a professional reference.
   • Recommendation forms must be submitted from persons who have been directly responsible for supervising your human service related work/volunteer experience, other professional experience or academic performance.
   • Personal recommendations will not be accepted. These include co-workers, mentors, advisers, friends, clergy, personal therapists, etc.

Concentrations: If you wish to be considered for the Couple and Family Therapy, School Social Work, Gerontology, Mental Health, Alcohol & Drug Counseling, Psychosocial Oncology and Military concentrations, please check the prospective students link at our website louisville.edu/kent for any additional admission procedures, documents, and deadlines necessary for consideration for admission to a particular concentration. Admission to these programs follows admission to Kent School but is not automatic. 30-credit hour Advanced Standing students will apply at the point of application while 60-credit hour students will apply the December before their advanced year in the program, with the exception of the CFT program. CFT concentration students will apply at the point of application to the MSSW program. Students accepted into the MSSW Online program are not eligible for the Couple Family and Therapy or School Social Work concentrations as they are campus only programs.

Dual Degrees: If you wish to be considered for any of the dual degree programs, you must also complete the other unit’s application process.
Students accepted into the ONLINE MSSW program are not eligible for dual degrees.

**International students:** All MSSW candidates who completed their undergraduate degrees outside of the US are required to have their transcripts evaluated by the credential services World Education Services at wes.org (http://www.wes.org) or Educational Credential Evaluators at ece.org (http://www.ece.org). Any candidate may be required to participate in a brief telephone interview as part of the admissions process. Candidates who are required to complete an I-20 form should note that they will be placed in a practicum program as part of their education. Admitted students to the on-campus program should contact UofL’s International Center to determine if any other immigration documentation is necessary to begin practicum at louisville.edu/internationalcenter.

ALL candidates for whom English is not their primary language must:

- show English proficiency by demonstration of a specified level of proficiency on the TOEFL exam or IELTS examination or by providing an official transcript from an acceptable English language institution
- Minimum TOEFL scores: 550 on the paper-based exam or 213 on the computer-based TOEFL or a score of 79-80 on Internet-based TOEFL is required. More information on TOEFL at www.ets.org/toefl (http://www.ets.org/toefl).
- Minimum IELTS score: 6.5 for more information review www.ielts.org (http://catalog.louisville.edu/graduate/programs-study/master-science-social-work/www.ielts.org)

MSSW Online US Citizens Living Abroad & Outside of Kentucky:
Applicants who live outside of the US will need to consult with Kent’s Director of Field Education, Lynetta Mathis, in advance of applying to the MSSW program to ensure the feasibility of meeting the practicum placement requirements in accordance with CSWE policies at lynetta.mathis@louisville.edu (martha.a.fuller@louisville.edu). A qualified practicum supervisor must be readily available (e.g., the supervisor has an MSSW/MSW degree from a CSWE accredited institution or similar CSWE type accreditation) and/or the applicant must participate in identifying a qualified practicum supervisor with the support of the Field Education Office. Both applicants outside of the US and outside of Kentucky must be willing to participate in the process of identifying a qualified practicum supervisor with the support of the Field Education Office. MSSW Online applicants in rural areas must consider that they may be required to travel to their practicum placements if no qualifying practicums are available in their local area.

Kent School reserves the right to request additional supportive material from persons acquainted with the applicant’s academic and/or practice capabilities.

All of the above materials must be received in the School of Interdisciplinary and Graduate Studies, Graduate Admissions by one of the deadlines listed below in the year in which you hope to begin coursework.

**MSSW Admission Deadlines**
The final deadline varies as explained below, but because entry into the program is highly competitive, applicants are encouraged to submit their applications early to ensure a space. All admissions materials must be received in the School of Interdisciplinary and Graduate Studies, Graduate Admissions by the listed date in order for an applicant to be considered for admission by a particular deadline. Earlier applicants have more practicum placement and MSSW curriculum plan options.

Kent School deadlines for admission are classified as follows:

**December 15: Concentration Deadline/Out of State Online Student Deadline**
Applicants who must meet this deadline:

- 81-credit hour MSSW-Couple and Family Therapy concentration applicants (not available to online students)
- 30-credit hour applicants who wish to apply to a concentration (CFT and School Social Work are not available to Online students)
- Out of State Online Program applicants who wish to have a curriculum plan with a practicum placement their first year of the program

**February 28: Early Bird Deadline**
Applicants who must meet this deadline:

- 30- and 60-credit hour applicants who wish to start in the Summer
- Concentration applicants may be considered on a case by case basis if space allows and an appropriate practicum is available
- Out of state online applicants may be considered if an appropriate practicum is available or if willing to consider a curriculum plan that delays practicum until the second year

**May 30: Traditional Deadline**
Applicants who must meet this deadline:

- 30-credit hour and 60-credit hour campus applicants who wish to start in the fall, any curriculum plan
- 30-credit hour and 60-hour online applicants who wish to start in the fall and are willing to select plans that delay practicum placements until the following year.

**September 30: Spring Admissions Deadline**
Applicants who must meet this deadline:

- 30-credit hour applicants who wish to start in the spring
- 60-credit hour applicants who wish to start in the spring on a 3-year curriculum plan

Exceptions to deadlines

- Applications after December 15 for 30-credit hour concentrations (on campus and online) and the 81-credit hour MSSW-CFT concentration (on campus only) will only be considered if space in the concentration is available AND if an appropriate practicum site is readily available.
- Applications submitted after May 30 will be considered on a case by case basis if space allows and ONLY if the applicant is willing to choose a curriculum plan that delays practicum until the following year. (Plans C-F for 60-credit hour, and Plans EE/FF for 30-credit hour; 30-credit hour applicants at this stage must also be working at a social service agency to be eligible for these plans in order to execute the year-long research project).
Program Requirements

The MSSW program offers a variety of both 60-hour and 30-hour Advanced Standing (for qualified BSW applicants) curriculum plans, including options for full-time, part-time, weekend and online classes. Both the Foundation and Advanced coursework years include a 16-hour/week field practicum.

There are opportunities to specialize in Alcohol and Drug Counseling, Couple and Family Therapy, Gerontology, Mental Health, Military Social Work, Psychosocial Oncology, and School Social Work, while obtaining your MSSW.

For specialization/concentration coursework requirements, please refer to the Concentration Requirements tab.

MSSW 60-Credit Hour Regular Program

Students who are admitted and do not have a Council on Social Work Education (CSWE)-accredited Bachelor of Social Work degree enter the 60-hour regular program. This program can be completed in different ways in which the shortest period is 2 years and the longest period is 4 years. Specific plans are outlined under Curriculum Plans on the Kent School website. The next listing provides a basic description of the courses needed to complete this program (all courses are 3 credit hours each):

Foundation Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 601</td>
<td>Human Behavior in the Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SW 619</td>
<td>Human Behavior in the Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SW 602</td>
<td>Social Welfare Institutions, Policies and Services</td>
<td>3</td>
</tr>
<tr>
<td>SW 622</td>
<td>Issues in Policy and Service Delivery</td>
<td>3</td>
</tr>
<tr>
<td>SW 603</td>
<td>Diversity, Oppression, and Social Justice Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 604</td>
<td>Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SW 605</td>
<td>Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 670</td>
<td>Foundation/Generalist Social Work Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>SW 671</td>
<td>Foundation/Generalist Social Work Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>SW 626</td>
<td>Research Methodology and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

1. 16 clock hours per week

Advanced Coursework

(Prerequisite: all Foundation Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 641</td>
<td>Advanced Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SW 640</td>
<td>Advanced Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 677</td>
<td>Advanced Social Work Practice III</td>
<td>3</td>
</tr>
<tr>
<td>SW 668</td>
<td>Advanced Research Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 669</td>
<td>Advanced Research Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 672</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

1. Must be taken in the same semester or in the Summer before SW 640
2. 18 clock hours per week

MSSW 30-Credit Hour Advanced Standing Program

Students holding a CSWE-accredited Bachelor of Social Work degree with a cumulative grade point average of 3.00 and a 3.25 cumulative GPA in all social work foundation courses and who have demonstrated good academic performance in their social work courses may be enrolled in the 30-credit hour advanced standing Program.

This program equates to completing the 30-hour advanced portion of the 60-credit hour program. No academic credit is given for life or work experience. Advanced Standing is limited to applicants who have earned BSW degrees within the last 7 years, at the time of enrollment in the Kent School. This program can be completed in different ways in which the shortest period is 1 year and the longest period is 2 years.

Specific plans are outlined under Curriculum Plans on the Kent School website, www.louisville.edu/kent. The next listing provides a basic description of the courses needed to complete this program (all courses are 3 credit hours each):

Advanced Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 660</td>
<td>Advanced Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SW 662</td>
<td>Advanced Social Work Practice III</td>
<td>3</td>
</tr>
<tr>
<td>SW 663</td>
<td>Advanced Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 670</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>SW 671</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>SW 672</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three MSSW electives 9

Minimum Total Hours 30

1. Must be taken in the same semester or in the Summer before SW 640
2. 18 clock hours per week

Concentration Requirements

Alcohol and Drug Counseling

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 660</td>
<td>Motivation and Change: The Process of Change and Strategies to Elicit Intrinsic Motivation.</td>
<td>3</td>
</tr>
<tr>
<td>SW 661</td>
<td>Special Issues in Alcohol and Drug Counseling</td>
<td>3</td>
</tr>
<tr>
<td>SW 662</td>
<td>Substance Use and Substance Use Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SW 672</td>
<td>Advanced Social Work Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>SW 673</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>SW 678</td>
<td>Advanced Alcohol and Drug Counseling</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Specialization Practicum Seminar
Couple and Family Therapy

The Couple & Family Therapy (CFT, formerly Marriage & Family Therapy/ MFT) program of study is dedicated to developing professionals in CFT (MFT) to work with at-risk individuals & families within their community contexts. The CFT program was the first, and is currently one of only two, programs accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) offering combined training in M/CFT and Social Work.

MSSW-CFT students complete coursework, practicum hours and supervision necessary for licensure as Licensed Marriage and Family Therapists in the state of Kentucky, in addition to being eligible to pursue licensure as Licensed Clinical Social Workers. The CFT coursework requires two calendar years to complete and begins in the summer of the first CFT year. The MSSW-CFT curriculum meets course requirements for Kentucky licensure and clinical membership in the American Association for Marriage and Family Therapy (AAMFT). CFT coursework focuses on theoretical foundations, practical application, ethics, integration of research, theory and practice and supervised clinical practice.

Course Title Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 601 Human Behavior in the Social Environment I (Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 602 Social Welfare Institutions, Policies and Services (Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 604 Social Work Practice I (Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 610 Foundation Couple and Family Therapy Practicum I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 701 Family Therapy Assessment and Treatment in Diverse Populations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 721 Family Therapy Supervision I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 605 Social Work Practice II (Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 611 Foundation Couple and Family Therapy Practicum II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 622 Issues in Policy and Service Delivery (Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 703 Contemporary Issues, Community Intersections &amp; Collaborations in CFT</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 722 Family Therapy Supervision II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 606 Social Work Practice II (Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 612 Advanced Couple and Family Therapy Practicum I</td>
<td>3</td>
<td></td>
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<tr>
<td>SW 641 Advanced Social Work Practice I (Adv Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 668 Advanced Research Practice I (Adv Core)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 702 Couple Therapy: Theory and Practice</td>
<td>3</td>
<td></td>
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<tr>
<td>SW 724 Family Therapy Supervision IV</td>
<td>3</td>
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Minimum Total Hours: 54

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>SW 613 Advanced Couple and Family Therapy Practicum II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 677 Advanced Social Work Practice III (Adv Core)</td>
<td>3</td>
<td></td>
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<tr>
<td>SW 699 Independent Study</td>
<td>1-4</td>
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<tr>
<td>SW 704 Integrating Family Therapy: Theory and Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 705 Professional Issues &amp; Ethics in Couple &amp; Family Therapy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 725 Family Therapy Supervision V</td>
<td>3</td>
<td></td>
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Minimum Total Hours: 18

Gerontology

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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>SW 672 Advanced Social Work Practicum I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 673 Advanced Social Work Practicum II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 681 Social Gerontology I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 682 Social Work Practice with Older Persons</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 684 Spirituality and Social Work</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 686 Gerontology Specialization Lab I (Fall)</td>
<td>1</td>
<td></td>
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<tr>
<td>SW 687 Gerontology Specialization Lab II (Spring)</td>
<td>1</td>
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Minimum Total Hours: 16

Mental Health

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SW 615 Mental Health</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 642 Psychopathology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 657 Group Methods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 659 Introduction to Family Therapy Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 660 Motivation and Change: The Process of Change and Strategies to Elicit Intrinsic Motivation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SW 691 Mental Health Specialization Integrative Seminar I</td>
<td>1</td>
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<tr>
<td>SW 692 Mental Health Specialization Integrative Seminar II</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SW 693 Mental Health Specialization Integrative Seminar III</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SW 694 Social Work Practice with Older Persons</td>
<td>3</td>
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Minimum Total Hours: 17
### Military Social Work

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 627</td>
<td>Military Social Work</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Choose 2 of the following electives:</strong></td>
<td>6</td>
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<tr>
<td>SW 615</td>
<td>Mental Health</td>
<td></td>
</tr>
<tr>
<td>SW 642</td>
<td>Psychopathology</td>
<td></td>
</tr>
<tr>
<td>SW 659</td>
<td>Introduction to Family Therapy Practice</td>
<td></td>
</tr>
<tr>
<td>SW 662</td>
<td>Substance Use and Substance Use Disorders</td>
<td></td>
</tr>
<tr>
<td>SW 628</td>
<td>Military Social Work Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>SW 629</td>
<td>Military Social Work Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>SW 672</td>
<td>Advanced Social Work Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>SW 673</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
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</table>

**Minimum Total Hours** 17

### Psychosocial Oncology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 647</td>
<td>Psychosocial Practice in Oncology I: Interpersonal Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 648</td>
<td>Psychosocial Practice in Oncology II: Community Approaches to Promote Health Equity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Choose one elective course from the following:</strong></td>
<td>3</td>
</tr>
<tr>
<td>SW 633</td>
<td>Social Work and Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>SW 636</td>
<td>Death &amp; Grief</td>
<td></td>
</tr>
<tr>
<td>SW 684</td>
<td>Spirituality and Social Work</td>
<td></td>
</tr>
<tr>
<td>PHEP 501</td>
<td>Introduction to Epidemiology (previously PHEP 601)</td>
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</tr>
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</table>

**Other course of interest—to be approved by chair** 3

**Field Practicum (2 day per week in cancer care setting)** 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 649</td>
<td>Psychosocial Oncology Seminar I</td>
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</tr>
<tr>
<td>SW 650</td>
<td>Psychosocial Oncology Seminar II</td>
<td>1</td>
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</table>

**Minimum Total Hours** 17

### School Social Work

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SW 630</td>
<td>School Social Work: Policy and Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 642</td>
<td>Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SW 672</td>
<td>Advanced Social Work Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>SW 673</td>
<td>Advanced Social Work Practicum II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Student Portfolio</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 15

### Social Work (PhD)

**Doctor of Philosophy in Social Work (SW PHD)**

Unit: Kent School of Social Work (https://louisville.edu/kent) (GK)

Department: Social Work

Program Webpage (https://louisville.edu/kent/academics/doctor-of-philosophy-in-social-work)

### Program Information

The PhD program in social work at the Kent School of Social Work, a joint program with the University of Kentucky’s College of Social Work, prepares academically motivated master’s level social workers to take on teaching, research, administrative, and policy analysis positions.

The program focuses on building research, teaching, and analytic competencies through courses on social (work) theories, advanced research design and analysis, teaching, ethics, special topics seminars, guided research practicums and independent studies.

Students have the opportunity to collaborate with a diverse group of nationally recognized faculty within the school and university with expertise in the areas of social and child welfare, child & family well-being, gerontology, health & mental health, justice & criminality, school social work, substance abuse and international social work.

Along with coursework, students are guided in developing expertise in an area of social sciences research. Areas of research have included an examination of social and health disparities, social work interventions, predictors and risk factors for substance abuse, long-term effects of maltreatment and trauma, and evaluation of training programs, to name just a few.

Students are also mentored and supported on becoming a faculty member, and balancing research, teaching, and service as they prepare for their future career.

Graduates of our program have gone on to work as faculty members in schools of social work nationally and internationally as well as in a variety of other research, administrative and policy positions.

### Admission Requirements

To apply to the doctoral program in social work send the following materials by January 5 to:

**School of Interdisciplinary and Graduate Studies**

**Graduate Admissions**

University of Louisville

Houchens Bldg., Rm 105

Louisville, KY 40292

1. Completed Graduate Admissions Application (http://louisville.edu/graduate/apply)
2. Application for Admission to the UofL PhD in Social Work Program (http://louisville.edu/graduate/apply)
3. Official transcripts from each college/university attended, and documentation of the receipt of a master’s degree in Social Work, e.g. MSW, MSSW, from a CSWE accredited program or international equivalent.
4. Official report of GRE scores
5. Three recommendations (at least two from academicians)
6. Application fee
7. A current resume
8. A sample of scholarly writing

9. A personal statement of career goals, research interests, and reasons for pursuing doctoral studies (no more than 3 pages).

**The admission process involves the following:**
- Review of application materials by the doctoral admissions committee
- Admission committee interviews with those recommended
- Recommendation to the School of Interdisciplinary and Graduate Studies

Students are expected to hold a master’s degrees in Social Work—i.e., MSW, MSSW—from programs accredited by the Council on Social Work Education (CSWE), or international equivalents. Two years of full-time post-master’s degree experience is advised.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 769</td>
<td>Advanced Research Design and Analysis I</td>
<td>6</td>
</tr>
<tr>
<td>SW 770</td>
<td>Advanced Research Design and Analysis II</td>
<td>6</td>
</tr>
<tr>
<td>SW 771</td>
<td>Advanced Research Design and Analysis III</td>
<td>3</td>
</tr>
<tr>
<td>SW 756</td>
<td>Professional Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>SW 758</td>
<td>Professional Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>SW 764</td>
<td>Teaching in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 759</td>
<td>Theory I: Social Work Change Theories</td>
<td>3</td>
</tr>
<tr>
<td>SW 760</td>
<td>Ethics, Social Work and Society</td>
<td>3</td>
</tr>
<tr>
<td>SW 755</td>
<td>Theory II: Theory Development</td>
<td>3</td>
</tr>
<tr>
<td>SW 757</td>
<td>Theory III: Analysis of Social Work Problems</td>
<td>3</td>
</tr>
<tr>
<td>SW 773</td>
<td>Advanced Measurement in Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>SW 772</td>
<td>Advanced Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>SW 762</td>
<td>Research Practicum</td>
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**Individualized Studies and Dissertation Hours**

<table>
<thead>
<tr>
<th>Individualized Studies</th>
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<tr>
<td>Dissertation</td>
<td>6</td>
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<tr>
<td>Minimum Total Hours</td>
<td>56</td>
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</tbody>
</table>

**Doctoral Comprehensive Examination**

The purpose of the comprehensive exam is to provide a format in which students can demonstrate their abilities to apply and integrate the whole of their educational experiences by adequately addressing complex questions pertinent to social work’s current and developing a knowledge base, and their individual research areas.

A student is eligible to take the comprehensive exam upon successful completion of 50 credit hours of core and individualized course work. Students are expected to provide answers that integrate knowledge from all required courses.

Following the passage of the comprehensive exam, students are admitted to candidacy status.

**Doctoral Dissertation**

After admission to candidacy, students proceed to propose, complete and defend their dissertations. The dissertation must represent independent research and should be based on original research questions or hypotheses.

This process includes a) a concept paper, b) a formal proposal, and c) conducting the research and writing the dissertation. Dissertation committees have at least five members, one of whom is from the University of Kentucky.

**Sociology (MA)**

**Master of Arts in Sociology (SOCIMA)**

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)

Department: Sociology (https://louisville.edu/sociology)

**Program Information**

The Department of Sociology, in the College of Arts and Sciences, offers graduate training leading to the master of arts in sociology and seeks to provide graduate education at the highest standards, introducing students to the current state of sociological knowledge and methods through quality classroom instruction, faculty-student collaboration, and independent student research and practical learning opportunities.

The program is designed to prepare students for the pursuit of a PhD in sociology or for moving directly into the workforce for a career in government, nonprofits, or the private sector.

**Accelerated BA-BS/MA in Sociology**

The Department of Sociology offers an accelerated master’s degree program, which is designed to allow motivated undergraduates the opportunity to earn graduate credit hours in sociology during their senior year. As undergraduates, accelerated students may earn between 6-9 credit hours (taking 2-3 graduate level courses), which are applied toward both the undergraduate degree as well as the graduate degree, allowing students to begin the graduate program in sociology with credits already applied toward their MA degree.

The graduate courses taken during the student’s senior year will depend on the courses the student has remaining to complete his/her undergraduate degree in sociology. The undergraduate advisor works individually with accelerated students regarding their course schedules.

**NOTE:** Students in the accelerated program in sociology may only apply their graduate credits earned as an undergraduate toward the graduate degree in sociology at UofL.

To be admitted to the program, a student must have: an undergraduate GPA of 3.35 or better at the time of application and satisfactory GRE scores (see Admissions tab for more information).

**Admissions Requirements**

Applicants are examined holistically using the following information in the admissions decisions: GRE scores, GPA, quality of the undergraduate program from which the applicant graduated, two academic letters of recommendation, a personal statement, and possibly an interview with the candidate.

The Department of Sociology is committed to fostering diversity by considering factors such as race, ethnicity, gender, sexuality, age, and social class in its graduate and undergraduate programs, as such, background factors and circumstances will be considered when reviewing applications.
While the Graduate Admissions Committee does not base admission solely on meeting—or not meeting—certain criteria, chances of admission are improved with the following:

- Undergraduate GPA of 3.2;
- Verbal and quantitative GRE (http://louisville.edu/lifelonglearning/test-preparation.html) scores;
- Previous undergraduate course work in statistics, methods, and theory*; and
- International students should also have either (a) a TOEFL score of at least 550 (on the paper-based test), 213 (on computer-based test) or 79-80 (on the internet-based test), or (b) a IELTS score of at least 6.5.

*Students may be allowed to make up deficiencies or use equivalent undergraduate courses for these prerequisites. Students who have completed similar courses in these areas may be asked to provide both the course syllabus and completed course work to determine equivalency. Students should contact Dr. Jonetta Weber (jonettaweber@louisville.edu) to discuss any questions regarding these prerequisites.

In exceptional cases, students not qualified for regular admission may be conditionally admitted by action of the Graduate Admissions Committee.

We encourage anyone interested in our graduate program to apply, regardless of GRE scores or grade point averages from undergraduate work or previous graduate work. When making our admission decisions, we holistically consider GRE scores and GPAs alongside personal statements and letters of recommendation (and other materials), knowing that low GRE/GPA numbers can be offset by other personal strengths. We do, however, prefer individuals with undergraduate GPAs of 3.2 or above, and (if applicable) graduate degree GPAs of 3.5 or above.

We encourage anyone who is considering applying to our graduate program to visit our department and meet with our faculty members and current graduate students.

Program Admission Procedure

All applicants must submit to the School of Interdisciplinary and Graduate Studies, Graduate Admissions:

- A graduate application (http://louisville.edu/graduate/futurestudents/apply-materials/application)
- Official copies of transcripts from all colleges attended (students with a foreign transcript must submit an evaluation of the transcript from World Education Services (www.WES.org) or Educational Credentials Evaluators (www.ECE.org) in the form of a discursive letter of recommendation and completion of the Letter of Evaluation form (https://sharepoint.louisville.edu/sites/SIGS/Documents/Grad-rec.pdf)
- Two references (preferably from sociology instructors) in the form of a discursive letter of recommendation
- GRE scores (GRE scores should be no older than five years unless a graduate degree has been earned within the last five years)
- A curriculum vitae or resume
- For international students, TOEFL or IELTS scores.

Applicants must also submit to Dr. Jonetta Weber (jonettaweber@louisville.edu) a personal statement (~500-750 words) addressing the questions below and giving the Sociology Departments Admissions Committee a basis for evaluating the student's interest in and ability to complete the program:

- What are your professional or occupational objectives, and how do you envision the department's program fitting into those objectives?
- What areas of sociology do you find especially interesting for study and/or research, and with which sociology faculty might you be interested in working?

Application Deadlines and Graduate Assistantships

The Sociology Department has available annually a limited number of graduate assistantships.

The application deadline for students not seeking funding is June 1 for fall admission and November 1 for spring admission. (Late applications may be considered on an individual basis.) The Department of Sociology does not admit students during the summer session.

The application deadline for students seeking funding (in the form of a graduate assistantship) is January 5 of the preceding year for fall admission and October 1 for spring admission. The materials must also be accompanied by a letter of interest (a) indicating that the applicant wishes to be considered for an assistantship, and (b) elaborating why the applicant feels that s/he would be a good candidate for an assistantship.

Accelerated BA-BS/MA in Sociology Application Procedure

Students must apply during the first or second semester of Junior year (i.e., when they have earned between 70-80 hours) by submitting the following to the Graduate Admissions Office:

- 6 (http://louisville.edu/graduate/futurestudents/apply-materials/application) graduate application (http://louisville.edu/graduate/futurestudents/apply-materials/application)
- Two references (preferably from sociology instructors) in the form of a discursive letter of recommendation and completion of the Letter of Evaluation form (https://sharepoint.louisville.edu/sites/SIGS/Documents/Grad-rec.pdf)
- GRE scores.

Applicants must also submit to the Department of Sociology responses to the Sociology Graduate Admissions Questionnaire (below).

Responses should be of sufficient length to give the Graduate Admissions Committee a basis for evaluating the student's interest in and ability to complete the program, and provide a sample of the student's writing. Responses can be submitted in four separate essays or combined in one longer essay.

Admissions Questionnaire

1. Please explain your reasons for applying to the accelerated master's program in sociology. What are your professional or occupational objectives (including any study beyond the master of arts in sociology)? How does this department's program fit into those objectives?
2. What areas of sociology do you find especially interesting for study and/or research?
3. What positions of responsibility, if any, have you had, and what, specifically, do you believe you have gained from such experience? Positions may include not only employment, but offices held in organizations, volunteer work, etc.
4. Please summarize what you believe to be your most important accomplishments to date, including those in the academic or occupational areas.

**Program Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>SOC 604</td>
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<td>SOC 609</td>
<td>Statistics I</td>
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<td>SOC 610</td>
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<td>SOC 611</td>
<td>Statistics III</td>
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<td>SOC 615</td>
<td>Research Methods</td>
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<td>SOC 618</td>
<td>Qualitative Research Methods</td>
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<td>SOC 622</td>
<td>Survey Research and Design</td>
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<td>SOC 628</td>
<td>Contemporary Theory</td>
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<td>SOC 690</td>
<td>Independent Study</td>
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<td>SOC 693</td>
<td>Research Study Administration</td>
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</tr>
<tr>
<td>SOC 695</td>
<td>Research Study</td>
<td>6</td>
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</tbody>
</table>

Minimum Total Hours: 34

**Sociology, Applied (PhD)**

**Doctor of Philosophy in Applied Sociology (ASCPHD)**

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)

Department: Sociology (https://louisville.edu/sociology)

Program Webpage (https://louisville.edu/sociology/graduate-studies/phd-in-applied-sociology)

**Program Information**

The Department of Sociology offers a PhD in Applied Sociology, which is focused on training professional researchers at the highest level to follow the discipline’s focus on bringing scientific understandings to the study of social issues and problems. Training is designed to prepare students for both academic careers and meeting the growing demand for applied sociologists who are qualified to address directly the problems facing not only our state but also our nation and the world.

**Admissions Requirements**

Applicants are examined holistically using the following information in the admissions decisions: GRE scores, GPA, quality of the program from which the applicant graduated, three academic letters of recommendation, a personal statement, and an interview with the candidate.

The Department of Sociology is committed to fostering diversity by considering factors such as race, ethnicity, gender, sexuality, age, and social class in its graduate and undergraduate programs; as such, background factors and circumstances will be considered when reviewing applications.

While the Graduate Admissions Committee does not base admission solely on meeting—or not meeting—certain criteria, as a guideline, chances of admission are improved with the following:

- Graduate GPA of 3.5;
- Combined verbal/quantitative GRE score;
- Previous graduate course work in statistics, methods, and theory*;
- Completed thesis (or original independent work of research from another accredited graduate program); and

* International students should also have either a) TOEFL score of at least 550 (on the paper-based test), 213 (on computer-based test) or b) 79-80 (on the internet-based test) or an IELTS score of at least 6.5.

*Students may be allowed to make up deficiencies or use equivalent graduate courses regarding these prerequisites. Students who have completed similar courses in these areas may be asked to provide both the course syllabus and completed course work to determine equivalency. Students should contact Dr. Jonetta Weber (http://louisville.edu/cgi-bin/uofl.mail?name=jonettawebber) to discuss any questions regarding these prerequisites.

In exceptional cases, students not qualified for regular admission may be conditionally admitted by action of the Doctoral Admissions Committee.

We encourage anyone interested in our graduate program to apply, regardless of GRE scores or grade point averages from undergraduate work or previous graduate work. When making our admission decisions, we holistically consider GRE scores and GPAs alongside personal statements and letters of recommendation (and other materials), knowing that low GRE/GPA numbers can be offset by other personal strengths. We do, however, prefer individuals with undergraduate GPAs of 3.2 or above, and (if applicable) graduate degree GPAs of 3.5 or above.

We encourage anyone who is considering applying to our graduate program to visit our department and meet with our faculty members and current graduate students.

**Application Deadline**

The deadline for applications for admission to the fall semester is June 1 and November 1 for the spring semester. (Late applications may be considered on an individual basis.) The Department of Sociology does not admit students during the summer session.

Students interested in being considered for a doctoral assistantship (http://louisville.edu/sociology/academic-programs/doctoral/doctoral-assistantships.html) must submit their application materials (along with a letter of interest a) indicating that they wish to be considered for an assistantship and b) elaborating why they feel they would be a good candidate for an assistantship) by January 5 for the fall semester and October 1 for the spring semester.

**Application Materials**

Applicants must submit to the Graduate Admissions Office:

- A graduate application (http://louisville.edu/graduate/futurestudents/apply-materials/application)
- Official copies of transcripts from all colleges attended (students with a foreign transcript must submit an evaluation of the transcript from World Education Services (www.WES.org (http://www.wes.org)) or Educational Credentials Evaluators (www.ECE.org (http://www.ece.org))
- Three references (preferably from former instructors, and in sociology, if possible) in the form of a discursive letter of recommendation and completion of the UofL Letter of Evaluation form (http://louisville.edu/graduate/futurestudents/apply-materials/application))
- A curriculum vitae (CV)
The Master of Arts in Spanish at the University of Louisville offers broad-based coverage of fields in Hispanic studies, including literary/cultural studies, Spanish linguistics, and translation/interpretation. Through a combination of core courses taught exclusively in Spanish, electives taken either in Spanish or in contiguous programs of study, and faculty-directed research, students develop mastery in one of these fields, preparing themselves for greater competitiveness in doctoral programs in Hispanic studies or Spanish linguistics; more effective service to the Hispanic community; and/or increased cultural competence in the global workplace.

### Program Information

The Master of Arts in Spanish at the University of Louisville offers broad-based coverage of fields in Hispanic studies, including literary/cultural studies, Spanish linguistics, and translation/interpretation. Through a combination of core courses taught exclusively in Spanish, electives taken either in Spanish or in contiguous programs of study, and faculty-directed research, students develop mastery in one of these fields, preparing themselves for greater competitiveness in doctoral programs in Hispanic studies or Spanish linguistics; more effective service to the Hispanic community; and/or increased cultural competence in the global workplace.

### Admission Requirements

A prerequisite for admission to the Spanish MA is advanced proficiency in Spanish (speaking, aural comprehension, reading, and writing) and significant previous study of the Spanish language and Hispanic literature and cultures. Applicants who do not hold a BA in Spanish or the equivalent by their intended start date may be required to take remedial coursework to make up for any deficiencies.

Applications are considered throughout the academic year for admission in fall, spring, or summer, although priority will be given to applications received at least six weeks prior to the intended start date. The Director of Graduate Studies in Spanish reviews applications and, in consultation with the Spanish graduate faculty, makes all admission decisions. In rare cases, applicants may be admitted on a conditional basis even though application materials are incomplete.

The complete application includes:

- School of Interdisciplinary and Graduate Studies application and application fee.
- Transcripts from all accredited institutions where undergraduate and/or graduate credit was earned (submitted directly to the School of Interdisciplinary and Graduate Studies by the institution). Minimum GPA required for undergraduate work: 3.0 on a four-point scale.
- Two letters of evaluation (submitted directly to the School of Interdisciplinary and Graduate Studies by the evaluators). Detailed comments should accompany the evaluation form and address specifically the applicant’s proficiency in both Spanish and English, preparation in Hispanic studies, and potential to do graduate work.
- A personal statement of 400-500 words, written in Spanish, discussing how the MA in Spanish relates to the applicant’s professional or personal goals.

### Program Requirements

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<th>Code</th>
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<th>Hours</th>
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<td>SOC 725</td>
<td>Organizational Theory</td>
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<tr>
<td>SOC 730</td>
<td>Fundamental Assumptions of Sociology</td>
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<td>SOC 735</td>
<td>Classical Theory</td>
<td>3</td>
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<tr>
<td>SOC 740</td>
<td>Social Policy</td>
<td>3</td>
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<td>SOC 750</td>
<td>Program Evaluation</td>
<td>3</td>
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<td>SOC 760</td>
<td>Social Stratification</td>
<td>3</td>
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<td>SOC 795</td>
<td>Dissertation Research</td>
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<td>SOC 790 and/or electives in Sociology</td>
<td>9</td>
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Minimum Total Hours: 34

### Spanish (MA)

**Master of Arts in Spanish (SPANMA)**

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)

Department: Classical and Modern Languages (https://louisville.edu/modernlanguages)

Program Webpage (https://louisville.edu/spanish)

The combined BA/MA program is an accelerated option for motivated and highly prepared undergraduates at the University of Louisville who wish to prepare themselves for the global economy, a multicultural community, and a changing workplace through the study of language, culture, linguistics, translation, and interpreting. Students admitted to the program may apply up to nine (9) credit hours of graduate coursework towards both the BA in Spanish and the MA in Spanish. After completing the undergraduate program and receiving the BA, the student will enter the graduate program and complete the remaining requirements for the MA.

To be considered for admission to the accelerated program, students must:

- Have a minimum overall grade point average (GPA) of 3.35.
- Complete an application for admission to the Spanish BA/MA (including two letters of evaluation) no later than the end of the junior year.

To be considered for admission to the accelerated program, students must:

- Have a minimum overall grade point average (GPA) of 3.35.
- Complete an application for admission to the Spanish BA/MA (including two letters of evaluation) no later than the end of the junior year.

Full details are available on the program website.

### Accelerated BA/MA in Spanish

The combined BA/MA program is an accelerated option for motivated and highly prepared undergraduates at the University of Louisville who wish to prepare themselves for the global economy, a multicultural community, and a changing workplace through the study of language, culture, linguistics, translation, and interpreting. Students admitted to the program may apply up to nine (9) credit hours of graduate coursework towards both the BA in Spanish and the MA in Spanish. After completing the undergraduate program and receiving the BA, the student will enter the graduate program and complete the remaining requirements for the MA.

To be considered for admission to the accelerated program, students must:

- Have a minimum overall grade point average (GPA) of 3.35.
- Complete an application for admission to the Spanish BA/MA (including two letters of evaluation) no later than the end of the junior year.

Full details are available on the program website.
• A sample of academic writing of at least five pages, preferably a research paper written as part of the requirements for a university-level course. (May be in English or Spanish.)
• TOEFL scores (for applicants for whom English is a second language).
  Minimum required: 79 or higher on the internet-based test, 213 or higher on the computer-based test, or 550 or higher on the paper-based test (applicants holding a bachelor's or advanced degree from an accredited institution in the United States are exempt from this requirement).

NOTE: While submission of GRE scores is not required for admission to the Spanish MA program, it is strongly recommended for applicants who wish to be considered for a graduate teaching assistantship or other university-awarded fellowship.

All application materials should be submitted to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
Houchens Building, Suite 105
Louisville, KY 40292

or submitted via the online application at louisville.edu/graduate/apply.

**Admission in non-degree status**

Applicants who do not seek the Spanish MA but wish to take graduate course work in Spanish may apply for admission in non-degree status. Application credentials must include the application form, application fee, and an official transcript showing the award of a baccalaureate degree. Should a non-degree student be admitted at a later date into the degree program, up to nine (9) credit hours of coursework taken in non-degree status may be applied to the degree with departmental approval. No more than 15 credit hours may be accumulated while in non-degree status.

**Graduate Teaching Assistantships**

Graduate teaching assistantships most often take the form of a one-year appointment awarded to students just beginning the Spanish MA program (renewable for a second year if the student remains in good standing). GTAs are expected to perform a variety of duties (including teaching) in conjunction with a full-time load of nine (9) credit hours per semester, completing their degree at the end of their second year.

Exceptionally, the program awards one-year assistantships to current Spanish MA students who will have completed 18 credit hours of graduate credit by the start date of the appointment. Such GTAs are assigned immediately to teach basic language and are expected to complete their degree by the end of the appointment year.

Competition for graduate teaching assistantships takes place in the spring, with appointments beginning in fall of the next academic year. Applicants to the Spanish MA program who wish to be considered for a graduate teaching assistantship must submit a separate graduate teaching assistantship application (available on the program webpage) in conjunction with their application for admission to the Spanish MA. For full consideration, all application materials must be submitted by February 28.

**Accelerated BA/MA in Spanish**

To be considered for admission to the accelerated program, students must:

• Have a minimum overall grade point average (GPA) of 3.35.
• Complete an application for admission to the Spanish BA/MA (including two letters of evaluation) no later than the end of the junior year.

Full details are available on the program website.

**Program Requirements**

The MA in Spanish requires 30 credit hours of academic coursework at the graduate level, of which at least 18 credit hours must be taken at the 600-level. Upon approval of the Director of Graduate Studies, up to six (6) credit hours of graduate-level coursework taken at another institution or through an accredited study abroad program may be applied toward the degree.

Students must take SPAN 611 Introduction to Methods and Research in Hispanic Studies within the first year of their admission to the program.

In their final semester, all students are required to complete a Directed Research Project under the direction of a faculty mentor and present their findings in a public forum.

**Required Coursework**

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<th>Code</th>
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<tr>
<td>SPAN 524</td>
<td>Introduction to Hispanic Linguistics</td>
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<tr>
<td>SPAN 554</td>
<td>Hispanic Culture through Film and Media</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 611</td>
<td>Introduction to Methods and Research in Hispanic Studies</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 624</td>
<td>Special Topics in Hispanic Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 634</td>
<td>Spanish for the Workplace and the Community</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 644</td>
<td>Approaches to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 648</td>
<td>Hispanic Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 661</td>
<td>Foundations of Translation and Interpreting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two electives in Spanish or in contingent fields</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>(with Director of Graduate Studies’ approval)</td>
<td></td>
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</table>

**Directed Research Project**

Minimum Total Hours 30

Students enrolled in the Spanish MA program may count up to 12 credit hours of coursework for the Translation and Interpreting Certificate program (p. 1078) toward their MA degree requirements.

**Special Education, Non-Teaching (MEd)**

**Master of Education in Special Education (SPE MED)**

Unit: College of Education and Human Development (GE) (http://louisville.edu/education)
Department: Special Education (http://louisville.edu/education/departments/sped)
Program Webpage (http://louisville.edu/education/degrees/med-se)

**Program Information**

This program is not designed to lead to teacher certification.

The non-teaching master's degree in Special Education is designed to advance the knowledge and expertise of professionals who are delivering services for children and adolescents with disabilities through
comprehensive-care centers, institutions, hospitals, clinics, day care centers, preschools, and community programs.

**Admission Requirements**

Admission requirements for this program include the following:

- Application to the School of Interdisciplinary and Graduate Studies ([http://louisville.edu/graduate/apply](http://louisville.edu/graduate/apply))
- Official transcripts with a 2.75 minimum GPA in the Bachelor's degree and a 3.0 or higher GPA for graduate work
- Two letters of recommendation
- Official GRE scores
- Personal statement
- Current Resume

Candidates who earned a baccalaureate (and/or advanced) degree outside the U.S., and whose native language is not English, also must submit official TOEFL scores that meet minimum criteria, and must submit an evaluated transcript from WES (World Education Services) or ECE (Educational Credential Evaluators).

**Program and Concentration Requirements**

**MEd in Special Education**

<table>
<thead>
<tr>
<th>Code</th>
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<td>EDSP 540</td>
<td>Introduction to Exceptional Children</td>
<td>6</td>
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<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
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<tr>
<td>EDSP 627</td>
<td>Applications of Assistive Technology</td>
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<tr>
<td>EDSP 652</td>
<td>Academic and Behavior Response to Intervention</td>
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<tr>
<td>EDSP 639</td>
<td>Education Research in P-12 Setting</td>
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Midpoint Assessment

Area of Emphasis

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<tr>
<td>EDSP 663</td>
<td>Low Tech Assistive Technologies</td>
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<tr>
<td>EDSP 664</td>
<td>Assistive Technology: Computer Access and Switches and Toys</td>
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<tr>
<td>EDSP 673</td>
<td>Research Seminar in Autism Spectrum Disorders</td>
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</table>

Exit Assessment: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks to date; scored Exemplary or Target on Rubrics for Advanced Candidates; positive recommendation from the Special Education Program Committee.

Degree Candidacy: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog. (p. 802)

**MEd in Special Education with a concentration in Assistive Technology**

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<thead>
<tr>
<th>Code</th>
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<tr>
<td>EDSP 540</td>
<td>Introduction to Exceptional Children</td>
<td>9</td>
</tr>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
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<td>EDSP 639</td>
<td>Education Research in P-12 Setting</td>
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<tr>
<td>EDSP 669</td>
<td>Single Subject Research Methods and Designs</td>
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</tbody>
</table>

Midpoint Assessment: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks to date; scored Exemplary or Target on Rubrics for Advanced Candidates.

Exit Assessment: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks; scored Exemplary or Target on Rubrics for Advanced Candidates; positive recommendation from the Special Education Program Committee.

Degree Candidacy: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog. (p. 802)

**MEd in Special Education with a concentration in Autism Spectrum Disorders and Applied Behavior Analysis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
<td></td>
</tr>
<tr>
<td>EDSP 654</td>
<td>Radical Behaviorism</td>
<td></td>
</tr>
<tr>
<td>EDSP 669</td>
<td>Single Subject Research Methods and Designs</td>
<td></td>
</tr>
</tbody>
</table>

Midpoint Assessment: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks; scored Exemplary or Target on Rubrics for Advanced Candidates; positive recommendation from the Special Education Program Committee.

Exit Assessment: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks; scored Exemplary or Target on Rubrics for Advanced Candidates; positive recommendation from the Special Education Program Committee.

Degree Candidacy: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog. (p. 802)
ETSP 653  Practicum in Autism and Applied Behavior Analysis

Midpoint Assessment

Area of Emphasis  12

EDSP 570  Autism: Introduction and Understanding
EDSP 671  Autism: Strategies and Techniques
EDSP 546  Behavior Analytic Approach to Communication
EDSP 650  Advanced Applied Behavior Analysis

Minimum Total Hours  30-39

Midpoint Assessment: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; completion of intervention proposal and presentation with a rating of Satisfactory; Exemplary or Target performance on all Hallmark Assessment Tasks to date; scored Exemplary or Target performance on Advanced Program rubrics.

Exit Assessment: Cumulative GPA of 3.0 or higher; grades no lower than B- in all coursework; completion of intervention proposal and presentation with a rating of Satisfactory; Exemplary or Target performance on all Hallmark Assessments; scored Exemplary or Target performance on Advanced Program rubrics; positive recommendation from the Special Education Program Committee.

Degree Candidacy: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

Special Education (MEd)

Master of Education in Special Education (SPEMED)
Unit: College of Education and Human Development (http://louisville.edu/education) (GE) (http://louisville.edu/education)
Department: Special Education (http://louisville.edu/education/departments/sped)
Program Webpage (https://louisville.edu/education/degrees/med-se)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-education-in-special-education).

The MEd in Special Education with a concentration in Learning and Behavior Disorders, or Moderate and Severe Disabilities, is designed for the Kentucky certified teacher to add certification. Bachelor’s-level certified teachers may use the program to add certification in LBD or MSD, and complete the required Rank II/master’s degree. Teachers who have already earned a master’s degree may use the program to add certification and complete the Rank I.

Learning and Behavior Disorders
Through the MEd in Special Education with a concentration in Learning and Behavior Disorders program, teachers increase their knowledge and expertise in teaching students with Behavior Disorders, Learning Disabilities, Mild Mental Disabilities, and Orthopedic Impairments at all grade levels from kindergarten through high school.

Moderate and Severe Disabilities
The MEd in Special Education with a concentration in Moderate and Severe Disabilities program prepares candidates to teach students with intellectual disabilities that impede academic achievement and adaptive behavior skills (e.g., communication, social behavior, and daily living activities).

Elementary teachers work primarily with beginning or remedial skills in academic content (English language arts, math, science, and social studies) and adaptive behaviors. Middle Grades and Secondary teachers address these skills in addition to preparing students to transition to vocations or to post-secondary education.

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Coursework</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Area of Emphasis (Concentration)</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

* EDSP 540 and Teacher Certification are prerequisites for program entry.

Admission Requirements

Applicants are required to submit the following materials:

- Application to the School of Interdisciplinary and Graduate Studies
- Official transcripts with a 2.75 minimum GPA in the Bachelor’s degree and a 3.0 or higher GPA for graduate work
- Two letters of recommendation
- Official GRE scores.
- Kentucky teaching certificate
- Personal statement
- Current Resume

Candidates who earned a baccalaureate (and/or advanced) degree outside the United States and whose native language is not English must submit official TOEFL scores that meet minimum criteria, and must submit an evaluated transcript from WES (World Education Services) or ECE (Educational Credential Evaluators).

Program Requirements

MEd in Special Education with a concentration in Learning and Behavior Disorders (grades P-12)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prerequisite for entry into the program</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Teacher Certification</td>
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</tr>
</tbody>
</table>
**MEd in Special Education with a concentration in Moderate and Severe Disabilities (grades P-12)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 540</td>
<td>Introduction to Exceptional Children (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Inquiry (Critical Thinker)</td>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
</tr>
<tr>
<td></td>
<td>EDSP 639</td>
<td>Education Research in P-12 Setting</td>
</tr>
<tr>
<td></td>
<td>EDSP 669</td>
<td>Single Subject Research Methods and Designs</td>
</tr>
<tr>
<td>Advocacy (Professional Leader)</td>
<td>EDSP 652</td>
<td>Academic and Behavior Response to Intervention</td>
</tr>
<tr>
<td></td>
<td>EDSP 627</td>
<td>Applications of Assistive Technology</td>
</tr>
<tr>
<td>Action (Problem Solver)</td>
<td>EDSP 645</td>
<td>Learning and Behavior Disorders Practicum</td>
</tr>
</tbody>
</table>

**Midpoint Assessment**

Area of Emphasis | 18
---|---
EDSP 647 | Teaching Mathematics to Students with Disabilities
EDSP 512 | Methods for Students with Learning and Behavior Disorders
EDSP 516 | Assessment Procedures for Students with Learning & Behavior Disorders
EDSP 675 | Characteristics, Needs, and Responses to Students with EBD
EDSP 518 | Teaching Reading Special Education P-12 or EDSP 650 Advanced Applied Behavior Analysis

Minimum Total Hours | 36

**Midpoint Assessment**: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks; scored Exemplary or Target performance on all Advanced Program rubrics.

**Exit Assessment**: Cumulative GPA of 3.0 or higher; grade no lower than B- in all coursework; scored Exemplary or Target performance on all Hallmark Assessment Tasks; scored Exemplary or Target performance on all Advanced Program rubrics; positive recommendation from the Special Education Program Committee.

**Degree Candidacy**: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

Successful completion of appropriate PRAXIS Exams is required for Learning and Behavior Disorders teacher certification.

**PRAXIS Disclaimer**:

"Teacher certification requirements are subject to change. Before registering for PRAXIS test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or ets.org/praxis (http://www.ets.org/praxis/ky?WT.ac=praxishome_states_150414) for current requirements."

1 Course is required for certification.

---

**Special Education - Advanced Practitioner P-12 (RANK1)**

Rank 1 Program in Special Education - Advanced Practitioner P-12 (SPE RK1)

Unit: College of Education and Human Developments (GE)
Department: Special Education
Program Information

Rank 1 programs are not degree programs.

Rank 1 programs are planned graduate level programs designed for Kentucky teachers seeking rank change for salary purposes. They are recognized only in the state of Kentucky. By state regulation, Rank 1 status is 60 credit hours of approved graduate credit including a master's degree.

Admission Requirements

- Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply)
- Official transcripts with a minimum 2.75 GPA in the Bachelors degree and 3.0 GPA or higher for graduate work
- Kentucky teaching certificate
- Master's degree/Rank II
- Signed Professional Code of Ethics/Technology User Agreement form

Candidates who earned a baccalaureate (and/or advanced) degree outside the U.S., and whose native language is not English, must submit official TOEFL scores that meet minimum criteria, and must submit an evaluated transcript from WES (World Education Services) or ECE (Educational Credential Evaluators).

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Inquiry (Critical Thinker)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following</td>
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<tr>
<td>EDSP 639</td>
<td>Education Research in P-12 Setting (Select one of the following:)</td>
<td></td>
</tr>
<tr>
<td>ELFH 601</td>
<td>Applied Statistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advocacy (Professional Leader)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following</td>
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</tr>
<tr>
<td>EDSP 651</td>
<td>Professional and Ethical Practice of Applied Behavior Analysis</td>
<td></td>
</tr>
<tr>
<td>EDSP 652</td>
<td>Academic and Behavior Response to Intervention</td>
<td></td>
</tr>
<tr>
<td>EDAP 624</td>
<td>Curriculum Theory</td>
<td></td>
</tr>
<tr>
<td>EDAP 637</td>
<td>Using Assessment to Improve Student Achievement</td>
<td></td>
</tr>
<tr>
<td>ELFH 603</td>
<td>Administrative Leadership in a Reform Environment</td>
<td></td>
</tr>
<tr>
<td>ELFH 613</td>
<td>Administration and Supervision in Special Education</td>
<td></td>
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<tr>
<td>ELFH 636</td>
<td>Shaping School Culture and Community</td>
<td></td>
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<tr>
<td></td>
<td>Diversity</td>
<td>3</td>
</tr>
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<td></td>
<td>Select one of the following</td>
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<tr>
<td>EDSP 545</td>
<td>Exceptional Children in the Regular Classroom</td>
<td></td>
</tr>
<tr>
<td>EDAP 521</td>
<td>Teaching English Learners in the Classroom</td>
<td></td>
</tr>
<tr>
<td>EDAP 638</td>
<td>Instructional Strategies for Diverse Learners</td>
<td></td>
</tr>
<tr>
<td>EDAP 642</td>
<td>Literacy Learning and Cultural Differences</td>
<td></td>
</tr>
<tr>
<td>EDTTP 503</td>
<td>Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Action (Problem Solver)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- EDSP 669 Single Subject Research Methods and Designs
- EDSP 650 Advanced Applied Behavior Analysis (Or capstone course equivalency approved by advisor)

**Area of Emphasis**

<table>
<thead>
<tr>
<th>Hours</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 30

**Midpoint Requirement:** Candidates are required to submit a mid-program performance assessment to their faculty advisor at the completion of 15 credit hours of coursework. The faculty advisor will assess the candidate's performance, which must be at the exemplary or target level. The performance assessment must address content, classroom environment, teaching, assessing, and reflection, and an artifact such as a video, to document professional learning.

**Exit Requirement:** Project that demonstrates exemplary or target in all of the Kentucky Teacher Performance Standards.

A Minimum of 15 credit hours in 600-level courses is required. Up to 15 hours of graduate credit may be transferred to the Rank 1 program, as long as the student will have completed 60 hours of approved graduate credit including a master's degree at the end of the Rank 1 program. Transfer credit must be officially accepted by the advisor and final acceptance is dependent upon receipt of official transcripts.

In the Rank 1 program, at least 15 credit hours of new graduate coursework must be taken at the University of Louisville.

To complete the program, students must have a minimum 3.0 grade point average. No credit shall be accepted for carrying a grade lower than B-minus.

**Special Education, Concentration in Moderate/Severe Disabilities P-12 (MAT)**

Master of Arts in Teaching in Special Education Concentration in Moderate/Severe Disabilities P-12 (SPE MATMSD)

Unit: College of Education and Human Development (https://louisville.edu/education) (GE)

Department: Special Education

Program Webpage (http://louisville.edu/education/degrees/mat-se-msd)

**Program Information**

This program leads to Kentucky certification for Moderate and Severe Disabilities, grades P-12. Applicants to the program should have excellent academic credentials as well as successful experience working with children and/or adults with Moderate and Severe Disabilities (MSD). Completion of this degree/licensure program will lead to certification as an MSD teacher only (not an Elementary, Middle or Secondary content area teacher).

Students must complete weekly field hours in school or community placements that serve individuals with moderate and severe disabilities. Prior to the end of the program a 12-week student teaching placement must be successfully completed.
Admission Requirements

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program:

1. Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
2. Minimum Test Scores (http://louisville.edu/education/degrees/info/gre-mat) as required by the Kentucky Education Professional Standards Board. Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
3. Bachelor’s Degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with a Minimum 2.75 Grade Point Average (official transcripts (http://louisville.edu/education/degrees/info/transcripts) required)
4. Grade of C or better in ENGL 102, or equivalent
5. Grade of C or better in oral communication course
6. TOEFL (http://louisville.edu/education/degrees/info/toefl)
7. Professional (http://louisville.edu/education/degrees/info/mat-se-professional-statement) Writing Requirements
8. Three Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)
9. Acceptable interview

Questions about admission should be directed to teacher@louisville.edu. Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 540</td>
<td>Introduction to Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 594</td>
<td>Foundational Concepts in Intellectual and Physical Disability</td>
<td>3</td>
</tr>
<tr>
<td>Pedagogy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDSP 520</td>
<td>Assessment of Students with Moderate/Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 609</td>
<td>Moderate/Severe Disabilities Curriculum and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 611</td>
<td>Moderate/Severe Disabilities Curriculum and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 614</td>
<td>Transition Programs and Services for Children and Youth With Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Midpoint Assessment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDSP 518</td>
<td>Teaching Reading Special Education P-12</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 546</td>
<td>Behavior Analytic Approach to Communication</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 570</td>
<td>Autism: Introduction and Understanding</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 608</td>
<td>Student Teaching: Moderate and Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 647</td>
<td>Teaching Mathematics to Students with Disabilities</td>
<td>3</td>
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Research

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 639</td>
<td>Education Research in P-12 Setting (must be taken in last 6 hours)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours: 39

Midpoint Assessment: Cumulative GPA of 3.0 or higher, grade no lower than "B-minus" in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks to date (including EDSP 644, EDSP 520, EDSP 609, and EDSP 611); Exemplary or Target performance on all rubrics; positive recommendation from the Special Education Program Committee; electronic documentation of 200 hours of diverse and approved field experiences.

Exit Assessment: Cumulative GPA of 3.0 or higher; no grade lower than "B-minus" in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks; Exemplary or Target performance on all rubrics; positive recommendation from the Special Education Program Committee.

Certification Assessment: Exemplary or Target dispositions assessment; no grade lower than "B-minus" in all coursework; passing scores on PRAXIS exams; positive recommendation from the Special Education Program Committee.

Degree Candidacy: Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in Academic Policies, Procedures, and Requirements (p. 802).

Praxis Disclaimer: Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (http://www.epsb.ky.gov) or praxis.ky (http://www.ets.org/praxis/ky) for current requirements.

Special Education, Concentration in Moderate/Severe Disabilities P-12, Alternative Certification (MAT)

Master of Arts in Teaching in Special Education Concentration in Moderate/Severe Disabilities P-12 (SPE MATMSD)
Unit: College of Education and Human Development (GE) (http://louisville.edu/education)
Department: Special Education (http://louisville.edu/education/departments/sped)
Program Webpage (http://louisville.edu/education/degrees/mat-se-msd)

Program Information

This program leads to Kentucky certification for Moderate and Severe Disabilities, grades P-12. Applicants to the program should have excellent academic credentials as well as successful experience working with children and/or adults with Moderate and Severe Disabilities (MSD). Completion of this degree/licensure program will lead to certification as an MSD teacher only (not an Elementary, Middle or Secondary content area teacher).

The Alternative Certification program requires that students who are admitted to this program become employed in an MSD classroom on a temporary provisional certificate. Classes start in the Summer each year. Admitted students must secure employment before the start of the fall term. Those who are not employed, have the option to pursue the
Admission Requirements

Candidates who meet the following criteria may be eligible to apply to the Master of Arts in Teaching program:

- Application to School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). This should be completed three to four weeks prior to the application deadline.
- Minimum Test Scores (http://louisville.edu/education/degrees/info/gre-mat) as required by the Kentucky Education Professional Standards Board
  Please note: when submitting test scores through ETS, use the general University of Louisville code, 1838.
- Bachelor's Degree from Accredited College or University (http://louisville.edu/education/degrees/info/bachelors) with a minimum 2.75 Grade Point Average (official transcripts required)
- C or better in ENGL 102 (or equivalent)
- C or better in oral communication course
- TOEFL (http://louisville.edu/education/degrees/info/toefl)
- Professional (http://louisville.edu/education/degrees/info/mat-mse-professional-statement) Writing Requirements
- Three Letters of Recommendation (http://louisville.edu/education/degrees/info/lor)
- Acceptable interview
- Signed Professional Code of Ethics/Technology User Agreement/Statement of Understanding of Admissions Guidelines

Questions about admission should be directed to teacher@louisville.edu.

Admission is competitive. Candidates who meet minimum academic requirements are not guaranteed admission to the program.

Program Requirements

Alternative Route in Special Education, Concentration in Moderate/Severe Disabilities P-12 (MAT)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 540</td>
<td>Introduction to Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 594</td>
<td>Foundational Concepts in Intellectual and Physical Disability</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Pedagogy</strong></td>
<td></td>
</tr>
<tr>
<td>EDSP 520</td>
<td>Assessment of Students with Moderate/Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 609</td>
<td>Moderate/Severe Disabilities Curriculum and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 611</td>
<td>Moderate/Severe Disabilities Curriculum and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 614</td>
<td>Transition Programs and Services for Children and Youth With Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 518</td>
<td>Teaching Reading Special Education P-12</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 546</td>
<td>Behavior Analytic Approach to Communication</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 570</td>
<td>Autism: Introduction and Understanding</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 635</td>
<td>Moderate and Severe Disabilities Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 647</td>
<td>Teaching Mathematics to Students with Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Research</th>
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</thead>
<tbody>
<tr>
<td>EDSP 697</td>
</tr>
<tr>
<td>EDSP 697</td>
</tr>
</tbody>
</table>

Minimum Total Hours 39

Mid-Point Assessment: Cumulative GPA of 3.0 or higher; no grade lower than B-minus in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks to date; Exemplary or Target performance on all rubrics; positive recommendation from the Special Education Program Committee

Exit Assessment: Cumulative GPA of 3.0 or higher; no grade lower than B-minus in all coursework; Exemplary or Target performance on all Hallmark Assessment Tasks; Exemplary or Target performance on all rubrics; positive recommendation from the Special Education Program Committee.

Certification Assessment: Satisfactory dispositions assessment; no grade lower than B-minus in all coursework; passing scores on PRAXIS exams; positive recommendation from the Special Education Program Committee.

Degree Candidacy: If not enrolled during the semester in which you are graduating, you will need to register for a degree candidacy as outlined in General Policies, Procedures and Requirements (p. 802).

Praxis Disclaimer: Teacher certification requirements are subject to change. Before registering for certification test(s), please refer to the Education Professional Standards Board (EPSB) website at epsb.ky.gov (https://www.epsb.ky.gov) or ets.org/praxis/ky (http://ets.org/praxis/ky) for current requirements.

Sport Administration (MS)

Master of Science in Sport Administration (SPADMS)
Unit: College of Education and Human Development (https://louisville.edu/education) (GE)
Department: Health and Sport Sciences (https://louisville.edu/education/departments/hss)
Program Webpage (http://catalog.louisville.edu/graduate/programs-study/master-science-sport-administration/louisville.edu/education/degrees/ms-sa)
Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Master of Science in Sport Administration is accredited by the Commission on Sport Management Accreditation (COSMA).

The College of Education and Human Development’s Sport Administration (SPAD) program at the University of Louisville prepares students for a variety of management positions in the sport industry. The goals of the faculty and the program are to create an active learning environment for each student and to encourage students to demonstrate a commitment to education, community involvement, and their fellow students. A strong foundation in education, community service, peer networks, and alumni networks is invaluable to students as they prepare to enter the sport industry. Exceptional theoretical and practical knowledge gained through the Sports Administration Program will also provide students with the foundation to become the next generation of leaders, decision makers, and managers in the sport industry.

Admission Requirements

Admission will be based on a holistic approach using the following:

- GPA and GRE scores
- Prior course work
- Experience
- Two (2) letters of recommendation
- Resume
- A personal statement explaining interest in the program and long-term objectives

In addition, the student must complete the application procedure as required by the School of Interdisciplinary and Graduate Studies.

Students are recommended to have earned a grade-point average of at least 2.75 on a 4.0-point scale. Successful students in the MS in Sport Administration program average a combined (verbal and quantitative) GRE score of 300 and a 4.0-4.5 on the Analytical section.

Admission to the program is competitive.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAD 604</td>
<td>Financial Principles of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 625</td>
<td>Sport Management and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 635</td>
<td>Research in Sport Administration</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 637</td>
<td>Sport Analytics</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 645</td>
<td>Sport Communication Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(replaced SPAD 605, effective 2018-19)</td>
<td></td>
</tr>
<tr>
<td>SPAD 683</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 684</td>
<td>Sport Policy</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 689</td>
<td>Legal Aspects in the Sport Industry</td>
<td>3</td>
</tr>
<tr>
<td>SPAD 692</td>
<td>Internship in Sport Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internship in Sport Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 hours of courses approved by advisor

Minimum Total Hours 36

Exit Requirement

Students must complete one of the following: 1) a written examination, 2) a research project, or 3) a thesis.

Structural Engineering (CERT)

Graduate Certificate in Structural Engineering (STENCSE)

Unit: Speed School of Engineering (https://louisville.edu/speed) (GS)
Department: Civil & Environmental Engineering (https://louisville.edu/speed/co-opCareerDev/students/engineeringDisciplines/CE)
Program Webpage (https://louisville.edu/online/programs/certificate-programs/structural-engineering)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Civil and Environmental Engineering Department at the J.B. Speed School of Engineering offers an online graduate certificate program in structural engineering to help professionals gain expertise in the field. This certificate provides an excellent opportunity for professionals with a BS in Civil Engineering degree who:

- May have received a job assignment that requires knowledge in structural engineering
- May have fundamental knowledge in Civil Engineering but may need additional skills and formal education in the field of structural engineering
- May need a credential alternative to a full master’s degree
- May want to save time and money by choosing to complete a certificate program

The graduate certificate in structural engineering is comprised of 4 courses (3 required core courses and 1 elective) for a total of 12 credit hours. The online program can be completed within one year.

Credits earned may be applied to the Master of Science in Civil Engineering. Students must apply and be admitted to the master’s degree program separately.

Admission Requirements

The admission standards for the Graduate Certificate program in Structural Engineering are as follows:

1. All admission applications for the Graduate Certificate program shall include:
   a. A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   b. An application fee,
   c. Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.

2. The minimum requirement for admission is the baccalaureate degree in Civil Engineering or its equivalent from an accredited institution.

3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).

4. International students whose primary language is not English must show English language proficiency. Applicants must either submit an
official TOEFL or IELTS score or demonstrate a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or an overall IELTS score of 6.5 or higher.

Students can enroll in a Graduate Certificate program either as a non-degree seeking student or as a student simultaneously enrolled in a graduate degree program and this graduate certificate program. Students who wish to earn a graduate degree must meet all admission criteria for the degree program.

All students enrolled in a graduate certificate program are expected to make steady and satisfactory progress toward the completion of the certificate. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the certificate program. Students who seek to return after such a period of time must contact the graduate program director.

Certificate Requirements

The following certificate requirements are mandatory for all Graduate Certificate candidates:

1. The Certificate Program of Study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.
2. Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 522</td>
<td>Fundamentals of Prestressed Concrete</td>
<td>3</td>
</tr>
<tr>
<td>CEE 626</td>
<td>Masonry Design</td>
<td>3</td>
</tr>
<tr>
<td>or CEE 523</td>
<td>Timber Design</td>
<td>3</td>
</tr>
<tr>
<td>CEE 590</td>
<td>Current Topics in Civil Engineering (Bridge Design)</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved Engineering Electives (600 level)

Students will choose one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 523</td>
<td>Timber Design</td>
</tr>
<tr>
<td>CEE 626</td>
<td>Masonry Design</td>
</tr>
<tr>
<td>CEE 665</td>
<td>Pavement Design</td>
</tr>
<tr>
<td>CEE 694</td>
<td>Special Topics in Civil Engineering (Building Information Modeling)</td>
</tr>
</tbody>
</table>

Minimum Total Hours 12

The Certificate Program of Study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.

Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.

Studio Art and Design (MFA)

Master of Fine Arts in Studio Art and Design (SAD MFA)
Unit: College of Arts and Sciences (GA)
Department: Fine Arts
Program Webpage (http://louisville.edu/art)

Program Information

The 60-credit hour MFA curriculum is structured according to guidelines established by the College Art Association of America (CAA). The professionally compliant curriculum, rigorous admissions and evaluation standards, quality and variety of courses, and the faculty mentoring structure will ensure that students accomplish the program objectives.

The MFA curriculum is rigorous and professional. The program is highly selective to allow students generous access to program faculty and resources. The graduate faculty provides students with individual attention, respects students’ individual directions, and challenges students to explore new avenues of artistic discovery.

Drawing from the diverse expertise of an outstanding faculty, students in the MFA program may choose to focus in one medium or explore and combine a variety of media. Courses are offered in ceramics, drawing, fibers, glass, painting, photography, printmaking, sculpture, graphic design, mixed media, and new media.

Admission Requirements

Successful applicants will have a superior academic background and a strong commitment to art. MFA students are expected to have a thorough understanding of the principles of form, proficiency in various media and technical skills, as well as a fluency in language and discourse in the historic and contemporary contexts.

The minimum requirement for admission is an undergraduate degree in studio art from an accredited college or university with a minimum of 48 credit hours of undergraduate work in studio courses and 12 credit hours in art history courses. A BFA in Studio Art is recommended. Applicants must have a minimum undergraduate grade point average of 3.0 on a 4.0 scale. Applicants must present a portfolio of work which shows technical and conceptual competency and demonstrates the promise necessary to succeed.

Students who do not meet the minimum credit requirements in undergraduate level courses (such as those who have completed a BA rather than a BFA degree) will be required to address any deficiencies by taking undergraduate courses before admitted to the program. These courses will not count toward the requirements for the MFA degree. Students must maintain a 3.0 GPA in all coursework, including undergraduate courses taken to remove deficiencies.

Application Requirements

1. Applicants to the MFA program must fulfill the general admission requirements of the College of Arts and Sciences. To meet the College of Arts and Sciences requirements applicants must hold a bachelor’s degree from an accredited institution with a grade point average of 3.0 on a 4.0 scale and have completed an undergraduate major or the equivalent in the intended field of study.
2. Applicants must submit the following to the School of Interdisciplinary and Graduate Studies, Graduate Admissions, at the University of Louisville (louisville.edu/graduate/apply):
   a. An Application for School of Interdisciplinary and Graduate Studies, Graduate Admission
   b. An application processing fee
   c. At least two letters of recommendation specific to the program
   d. And official transcripts of all college work.
Program Requirements

The MFA program requires a minimum total of 60 credit hours (31 of which must be at the 600 level).

Upon entering the MFA program, the student will select an advisor/mentor with whom he/she will develop a plan of study. In consultation with this mentor, the student will select courses that follow this plan and ensure timely progress toward graduation. The instructor of each course will evaluate the student’s level of achievement and progress in that particular class. Additionally, the student’s progress will be reviewed and evaluated in each of the four required seminar courses. Each student's faculty mentor will, on a regular basis, review the progress of the students they are supervising and provide the information necessary for the Director of Graduate Studies for Studio Art and Design program to provide an annual review for the School of Interdisciplinary and Graduate Studies.

Upon completion of the first year and a minimum of 18 credit hours, and again upon completion of the second year and a minimum of 36 credit hours, the student will undergo an MFA Review where their progress will be evaluated by a committee comprised of a minimum of three members of the faculty. The MFA student’s faculty mentor will serve as chair of the committee. Students who receive a favorable evaluation will be allowed to continue in the program and prepare a body of artwork for their thesis exhibition. Students who do not pass an MFA Review will be re-evaluated in the following semester. Students who receive two unsatisfactory evaluations may be recommended for dismissal.

Each MFA candidate will work closely with his/her mentor to develop a body of work for thesis and exhibition. During the last semester of study, the student must demonstrate artistic accomplishments through a thesis body of work for thesis and exhibition. During the last semester of study, the student must demonstrate artistic accomplishments through a thesis.

Program Information

This program can be completed in a traditional classroom format or entirely online.

Concentration Areas

The curriculum provides opportunities for customization including endorsements, concentrations, or certificates within the program. Concentration options include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ART 600</td>
<td>Graduate Seminar (first semester)</td>
<td>1</td>
</tr>
<tr>
<td>ART 693</td>
<td>MFA Seminar I (second semester)</td>
<td>1</td>
</tr>
<tr>
<td>ART 694</td>
<td>MFA Seminar II (third semester)</td>
<td>1</td>
</tr>
<tr>
<td>ART 695</td>
<td>MFA Seminar III (fourth semester)</td>
<td>1</td>
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Professional Internships or Service Learning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 696</td>
<td>Teaching Internship I (to be taken prior to receipt of a GTA)</td>
<td>2</td>
</tr>
<tr>
<td>ART 697</td>
<td>Teaching Internship II (to be taken after receipt of a GTA)</td>
<td></td>
</tr>
<tr>
<td>ART 698</td>
<td>Internship in Studio Art</td>
<td></td>
</tr>
<tr>
<td>ART 698</td>
<td>Internship in Studio Art</td>
<td></td>
</tr>
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</table>

Studio Art Practice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 690</td>
<td>MFA Projects (first semester)</td>
<td></td>
</tr>
<tr>
<td>ART 690</td>
<td>MFA Projects (third semester)</td>
<td></td>
</tr>
<tr>
<td>ART 690</td>
<td>MFA Projects (fifth semester)</td>
<td></td>
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Art History, Aesthetics, and Cultural Studies Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 642</td>
<td>Theories &amp; Methods of Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 690</td>
<td>Studio Art Practice</td>
<td></td>
</tr>
<tr>
<td>500/600 level</td>
<td>elective</td>
<td>3</td>
</tr>
<tr>
<td>500/600 level</td>
<td>elective</td>
<td>3</td>
</tr>
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</table>

Electives outside the Department

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>500/600 level</td>
<td>elective outside the department (Outside department elective must be determined in consultation with mentor)</td>
<td>3</td>
</tr>
</tbody>
</table>

MFA Thesis Project

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 699</td>
<td>MFA Thesis Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours

<table>
<thead>
<tr>
<th>Total Hours</th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

Satisfactory progress toward the degree requires successfully performing a number of activities, including regular enrollment in graduate courses, a consistent satisfaction of course requirements within given time limits, and maintenance of an appropriate grade point average (minimum 3.0).

Teacher Leadership (MEd)

Master of Education in Teacher Leadership (LEADMED)

Unit: College of Education and Human Development (GE) (http://louisville.edu/education)

Program Webpage (https://louisville.edu/education/degrees/med-tl)

Program Information

This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs/index/masters/master-of-education-in-teacher-leadership).

The Master of Education in Teacher Leadership at the University of Louisville was created in collaboration with P-12 classroom teachers, school district specialists, university faculty and school administrators to enhance the skills, knowledge and expertise of the Rank III certified Kentucky teacher, who has earned a bachelor's degree and wants to build his or her capacity to be a leader in the classroom, school and district.

This program may be taken online, face-to-face, or as a hybrid.

Concentration Areas

The curriculum provides opportunities for customization including endorsements, concentrations, or certificates within the program. Concentration options include:
Applicants must also submit the following:

- Admission online program must first submit the 
  - Admission Requirements

- Program Highlights
  - Individualized to meet professional goals
  - Based on three levels of leadership development
  - Specialized courses specific to content areas and grade levels
  - Preparation pathway to National Board Application
  - Courses taught by nationally recognized faculty
  - Focused on meeting needs of diverse learners
  - Emphasizes coaching and mentoring
  - Places your classroom and school as the focus of course discussions and assessments

- Concentration coursework is selected by the student in consultation with the faculty advisor.

Admission Requirements
Applicants to the Master of Education in Teacher Leadership online program must first submit the Online Graduate Application for Admission through the School of Interdisciplinary and Graduate Studies (http://graduate.louisville.edu/apply).

Applicants must also submit the following:

- Online Graduate Application for Admission (http://louisville.edu/graduate/futurestudents/apply-materials/application)
- Application fee (non-refundable)
- Valid Kentucky Teaching Certificate or Statement of Eligibility for candidates outside Kentucky (http://louisville.edu/online/programs/masters/master-of-education-in-teacher-leadership/apply/#outky).
  - If you are certified in Kentucky, please indicate that on your application. You are not required to submit this documentation as we have access through the Education Professional Standards Board.
  - If you are certified in another state, please read the Out of State Students – please list the email addresses for two recommenders in the online application. Recruiters will receive instructions and forms that they will complete online.

- Two letters of recommendation – please list the email addresses for two recommenders in the online application. Each essay should be double-spaced (Times New Roman 12 point font) and no more than three pages

  Essay #1
  In what ways has your cultural heritage and background influenced the way you teach, and impacted your interactions with others who come from a different cultural background? Describe an example of an injustice or inequity that you witnessed, experienced, or became aware of during teaching - and your response at that time. Then, explain how you would respond if it occurred again. Finally, explain how you support respect for diversity in your classroom, and how you demonstrate a commitment to social justice and equity when teaching.

  Essay #2
  Please review the Professional Dispositions Rubric [PDF] (http://louisville.edu/education/degrees/forms/dispositions-rubric.pdf) and consider how you would evaluate your areas of strength as well as those for potential growth in each of the categories. In your essay, please identify three categories that you would rate yourself as “target” or “exemplary” and explain why. Then, identify one area for professional growth, and explain how you envision this program supporting your growth in this area.

- GRE scores – not required for those with a 2.75 minimum undergraduate GPA
  - If your cumulative GPA is below 2.75, please email gedadm@louisville.edu regarding GRE minimum scores requirements.

- Official transcripts for any undergraduate work (minimum GPA of 2.75 preferred) and any graduate work (minimum GPA of 3.0 preferred)

Please have transcripts sent to:
School of Interdisciplinary and Graduate Studies
University of Louisville
Louisville, KY 40292

For electronic transcripts, please have them sent to: gedadm@louisville.edu

Note: Meeting GRE score and/or GPA minimums does not guarantee admission to the program.

Out of State Students – Out-of-state prospects who have teacher certification should be advised that we cannot guarantee the program will meet licensure, salary, advancement or other requirements in their state. As part of the admission process, we will require a written statement confirming their interest in the program for personal development and they understand the program is designed to meet Kentucky certification requirements only. For more information, please contact our academic advisor at betty.hampton@louisville.edu.

International Students – Applicants who have attended a college or university outside of the United States are also required to submit an evaluation of their transcript through either WES (World Education Services (http://wes.org)) or ECE (Educational Credential Evaluators (http://ece.org)). Please note that transcript evaluations can sometimes take several weeks.

- TOEFL – required of all foreign students from countries in which English is not the native language.
• Students who hold a baccalaureate or advanced degree from an accredited institution in the U.S. are exempt from this requirement.

**Enrollment Requirements** – Upon admission to the program, students will be assigned a faculty advisor and will work collaboratively with that advisor to complete any additional requirements needed before enrolling.

**Program Requirements**

**Master of Education in Teacher Leadership**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAP 637</td>
<td>Using Assessment to Improve Student Achievement</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 638</td>
<td>Instructional Strategies for Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 639</td>
<td>Education Research in P-12 Setting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mid-point Assessment**

Successful completion of 15 credit hours; scored Exemplary or Target on Rubrics for Advanced Candidates including dispositions assessment, minimum GPA of 3.0.

**Teacher Leadership - Level II**

Concentration Courses 1

Elective 0-3

**Teacher Leadership - Level III**

EDAP 677 | Developing Collaborative Groups: Facilitating, Coaching and Mentoring | 3     |

EDAP 681 | Teacher Leadership in Practice                 | 3     |

Minimum Total Hours 30

1 Concentration coursework is selected in consultation with the student’s faculty advisor.

Minimum of 18 credit hours in 600-level courses is required.

Transfer credit must be officially accepted by the advisor (maximum of 6 credit hours); final acceptance is dependent upon receipt of official transcripts.

A maximum of 9 credit hours taken in non-degree status can be applied toward a master’s degree (upon approval of advisor).

All courses must be completed within 6 years of admission to the program.

**Exit Assessment:** Successful completion of all required coursework; scored Exemplary or Target on Rubrics for Advanced Candidates including dispositions assessment; minimum 3.0 GPA with no grade lower than C.

**Degree Candidacy**

Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

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**Master of Education in Teacher Leadership - Special Education**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 639</td>
<td>Education Research in P-12 Setting</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 644</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 669</td>
<td>Single Subject Research Methods and Designs</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mid-point Assessment**

Successful completion of 15 credit hours; scored Exemplary or Target on Rubrics for Advanced Candidates including dispositions assessment, minimum GPA of 3.0.

**Teacher Leadership - Level II**

Concentration Courses 1

**Teacher Leadership - Level III**

EDSP 652 | Academic and Behavior Response to Intervention | 3     |

EDSP 653 | Practicum in Autism and Applied Behavior Analysis | 3     |

or EDSP 668 | Assistive Technology Seminar | 3     |

or EDSP 687 | Practicum/Action Research | 3     |

Minimum Total Hours 30

1 Concentration coursework is selected in consultation with the student’s faculty advisor.

Minimum of 18 credit hours in 600-level courses is required.

Transfer credit must be officially accepted by the advisor (maximum of 6 credit hours); final acceptance is dependent upon receipt of official transcripts.

A maximum of 9 credit hours taken in non-degree status can be applied toward a master’s degree (upon approval of advisor).

All courses must be completed within 6 years of admission to the program.

**Exit Assessment:** Successful completion of all required coursework; scored Exemplary or Target on Rubrics for Advanced Candidates including dispositions assessment; minimum 3.0 GPA with no grade lower than C.

**Degree Candidacy**

Students not enrolled during the semester in which they intend to graduate must register for degree candidacy as outlined in the Graduate Catalog (p. 802).

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**Theatre Arts (MFA)**

**Master of Fine Arts in Theatre Arts (TA MFA)**

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Fine Arts (http://louisville.edu/arts)
Program Webpage (http://louisville.edu/theatrearts)

**Program Information**

The Theatre Arts department fosters creativity, collaboration, discipline, and artistry. It embraces the theatre as a means of creative expression, cultural understanding, and social development. All students are exposed
to the diversity of multicultural theatre. The African American Theatre Program, founded in 1993, is integral to the department. 

In addition to the MFA in Theatre Arts, a Graduate Certificate in African American Theatre (p. 835) also is offered.

Admission Requirements

- Evidence of a Bachelor’s Degree and 2.75 cumulative grade point average (GPA).
- Audition at the University of Louisville or at a regional or national conference site
- Transcripts of all undergraduate and graduate work
- General Test score on the Graduate Record Examination
- Two letters of recommendation
- Personal Statement
- Writing Sample
- Department committee reviews application materials and makes a recommendation to the School of Interdisciplinary and Graduate Studies
- All applicants are automatically considered for Graduate Teaching or Research Assistantships that include full tuition, stipend, and health insurance for the academic year (August–May).

Program Requirements

MFA Candidates must complete the following course requirements. Students are paired with a faculty advisor and graduate committee to review their progress at the end of each semester, evaluating coursework, professionalism, performance projects, and any GTA responsibilities.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 624</td>
<td>Graduate Acting I-V (6 semesters, 3 credits each)</td>
<td>42</td>
</tr>
<tr>
<td>TA 622</td>
<td>Graduate Movement I-IV (4 semesters, 3 credits each)</td>
<td>15</td>
</tr>
<tr>
<td>TA 623</td>
<td>Graduate Voice I-IV (4 semesters, 3 credits each)</td>
<td>12</td>
</tr>
<tr>
<td>TA 529</td>
<td>Actors Theatre of Louisville Workshop</td>
<td>6</td>
</tr>
</tbody>
</table>

Translation and Interpreting (CERT)

Graduate Certificate in Translation and Interpreting (TRANCTR)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Modern Languages (https://louisville.edu/modernlanguages)

Program Information

The Graduate Certificate in Translation and Interpreting focuses on translation and interpreting as a field of both professional practice and academic study. Some of the topics covered include: comparative grammar and professional writing skills; culture, literature, history and theory; professional ethics, skills and practices; translation technologies, terminology and project management; and translation and interpreting in specialized domains (medicine, law, education and social services).

Coursework Overview

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Coursework</td>
<td></td>
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</tr>
<tr>
<td>Electives</td>
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</tr>
<tr>
<td>Internship/Directed Study</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Minimum Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Admission Requirements

Applicants to the Graduate Certificate in Translation and Interpreting must demonstrate advanced proficiency in both Spanish and English. Prerequisites for admission include an undergraduate/baccalaureate degree granted by an institution of higher education or its equivalent (where Spanish or English is the language of instruction). Students must meet the standard criteria for general admission to the University of Louisville’s School for Interdisciplinary and Graduate Studies, and supply all standard documentation required for admission.

Those wishing to pursue the graduate certificate in conjunction with a graduate degree program should first apply and be admitted to the degree program before applying for admission to the Graduate Certificate in Translation and Interpreting.

For admission to the certificate program the following should be submitted to the School of Interdisciplinary and Graduate Studies:

- School of Interdisciplinary and Graduate Studies application (http://louisville.edu/graduate/apply) and application fee.
- Transcripts from all accredited institutions where undergraduate and/or graduate credit was earned. Minimum GPA required for undergraduate work: 3.0 on a four-point scale (all University of Louisville transcripts will be submitted automatically with completion of an application for graduate study).
- Two letters of evaluation (submitted directly to the School of Interdisciplinary and Graduate Studies by the evaluators). Detailed comments should accompany the evaluation form and address specifically the applicant’s proficiency in both Spanish and English and potential to do graduate work.
- TOEFL iBT scores (applicants for whom English is a second language). Minimum required: 85, though evaluators will give special weight to the reading and writing scores. Applicants holding a bachelor’s or advanced degree from an accredited institution in the United States are exempt from this requirement.
• ACTFL scores Writing Test (applicants for whom Spanish is a second language). Minimum required: Advanced High. Applicants who have successfully completed graduate coursework in Spanish are exempt from this requirement.
• A personal statement of 1-2 pages (written in the applicant’s second language) discussing how the Graduate Certificate in Translation relates to the applicant’s professional or personal goals. Specify which areas of translation are of most interest and detail relevant experience.
• A Curriculum Vitae detailing experience relevant to language proficiency and especially to translation.

Complete applications to the Graduate Certificate in Translation and Interpreting are considered throughout the academic year, although priority will be given to applications received at least six weeks prior to the intended start date. The Director of the Graduate Certificate in Translation and Interpreting reviews applications and, in consultation with the graduate faculty, makes all admission decisions. In some cases, applicants may be admitted on a conditional basis even though application materials are incomplete.

All application materials should be submitted to:

School of Interdisciplinary and Graduate Studies
Graduate Admissions
Houchens Building, Suite 105
Louisville, KY 40292

or submitted via the online application at louisville.edu/graduate/apply.

Program Requirements
The Certificate in Translation and Interpreting requires completion of a minimum of five classes 1 (for a total of 15 credit hours) at the graduate level.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Foundations of Translation and Interpreting</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Computers in Translation</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select two from the following:</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SPAN 570 Basic Interpreting Skills</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Education and Social Service Interpreting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Legal Translation and Interpreting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Literary and Cultural Translation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Medical Translation and Interpreting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN/TRPR Special Topics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN 680 Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Internship or Directed Study 2
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SPAN/TRPR Final Translation and Interpreting Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 15

Coursework taken in fulfillment of requirements for the Graduate Certificate in Translation and Interpreting may in some cases count towards degree requirements in a program of graduate study (consult the Director of Graduate Studies in the particular degree program).

For students enrolled in the Spanish MA program (p. 1066), up to 12 credit hours of certificate coursework may count toward MA degree requirements.

1 Students may be required to take additional coursework (e.g., SPAN 544) to make up for language proficiency deficiencies.
2 Upon completion of at least nine (9) credit hours, students will engage in an internship or directed study, SPAN 669/TRPR 669, under the supervision of a member of the TRPR faculty (three (3) credit hours).

Transportation Engineering (CERT)
Graduate Certificate in Transportation Engineering (TRENCTE)
Unit: Speed School of Engineering (https://louisville.edu/speed) (GS)
Department: Civil Engineering and Environmental Engineering (https://louisville.edu/speed/civil)
Program Webpage (https://louisville.edu/online/programs/certificate-programs/transportation-engineering)

Program Information
This program can be completed in a traditional classroom format or entirely online (http://louisville.edu/online/programs).

The Civil and Environmental Engineering Department at the J.B. Speed School of Engineering offers an online graduate certificate program to help professionals gain proficiencies in the field of transportation engineering. This certificate provides an excellent educational opportunity for engineers with a BS in Civil Engineering who:

• May have received a job assignment that requires knowledge in transportation engineering;
• May have fundamental knowledge in civil engineering but may need additional skills and formal education in the field of transportation engineering;
• May need an alternative to a full master’s degree; or
• May want to save time and money by choosing to complete a certificate program.

The Graduate Certificate in Transportation Engineering program is comprised of 4 courses (3 required core courses and 1 elective) for a total of 12 credit hours. The online program can be completed within one year.

Credits earned may be applied to a master’s degree in Civil Engineering. Students must apply and be admitted to the master’s degree program separately.

Admission Standards
The admission standards for the Graduate Certificate program in Transportation Engineering are as follows:

1. All admission applications for the Graduate Certificate program must include:
   • A completed application (http://louisville.edu/graduate/apply) for the School of Interdisciplinary and Graduate Studies,
   • An application fee, and
2. The minimum requirement for admission is a baccalaureate degree in Civil Engineering or its equivalent from an accredited institution.

3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).

4. International students whose primary language is not English must show English language proficiency. Applicants must either submit an official TOEFL or IELTS score, or demonstrate a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 80 or higher or an overall IELTS score of 6.5 or higher.

Students can enroll in a Graduate Certificate program either as a non-degree seeking student or as a student simultaneously enrolled in a graduate degree program and this graduate certificate program. Students who wish to earn a graduate degree must meet all admission criteria for the degree program.

All students enrolled in a graduate certificate program are expected to make steady and satisfactory progress toward the completion of the certificate. Students who are not enrolled for a period of more than 12 months will be considered to have withdrawn from the certificate program. Students who seek to return after such a period of time must contact the graduate program director.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEE 562</td>
<td>Geometric Design of Highways</td>
<td>3</td>
</tr>
<tr>
<td>CEE 664</td>
<td>Fundamentals of Intelligent Transportation Systems</td>
<td>3</td>
</tr>
<tr>
<td>CEE 562</td>
<td>Geometric Design of Highways</td>
<td>3</td>
</tr>
<tr>
<td><strong>Approved electives</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students will choose one of the following:

- CEE 665 Pavement Design
- CEE 663 Advanced Traffic Operations
- CEE 662 Airport Planning & Design
- CEE 660 Transportation Planning and Urban Development
- CEE 661 Environmental Analysis of Transportation Systems
- CEE 694 Special Topics in Civil Engineering

Minimum Total Hours 12

The certificate program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.

Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a Transportation Engineering graduate certificate.

**Urban and Public Affairs (PhD)**

The PhD program prepares students for careers as professors, researchers, and public servants in the fields of Urban Policy and Administration and Urbanism and Sustainable Development Planning.

Students are required to complete 48 credit hours of study. This requires a sequence of core courses consisting of 18 credit hours. Students must complete 18 credit hours in an area of specialization including at least three required courses. Two field specializations are offered: Urbanism and Sustainable Development Planning and Urban Policy and Administration. Twelve (12) credit hours of dissertation research are also required. Students must pass a qualifying examination before commencing formal dissertation work. Students should consult the Program Guidelines for details.

### Academic Policies

**Waivers And Prerequisites**

Students who have recently and satisfactorily completed equivalent courses elsewhere may request that up to nine (9) credit hours of coursework count towards their 48 credit hours of required PhD study. Students who are not prepared for advanced study or do not hold the prerequisites for a particular course will be required to complete remedial work. Such courses do not count toward degree credit. Students should consult the Program’s Student Guide (http://louisville.edu/upa/programs/phd) for details.

**Dismissal and Academic Standing**

Any student with a grade point standing below 3.0, or experiencing similar academic problems, will be placed on probation by the School of Interdisciplinary and Graduate Studies. Students are ordinarily not permitted to continue on academic probation for more than one semester. Students not rectifying these academic problems after one semester will be recommended for dismissal if academic problems are not corrected after one semester. In addition, students receiving more than two grades below a B-minus in any graduate-level course (600 level or above) will be dismissed from the program. No grade below a C-minus will be counted towards the fulfillment of degree requirements. The Program Director will review the performance of students each semester to ensure students are making satisfactory progress. Students not making satisfactory progress are subject to dismissal from the program.
Students who do not complete all program requirements within four years of reaching doctoral candidacy status ordinarily will be dismissed from the program.

Qualifying (Comprehensive) Exam
To qualify for PhD candidacy, students must satisfactorily complete a Comprehensive (or Qualifying) Examination. Students must sit for this exam as soon as they are eligible. The Comprehensive (Qualifying) Examination is held in May each year.

Consult with the Program Director and refer to the Program’s Student Guide (http://louisville.edu/upa/programs/phd) for details about the examination.

Admission Requirements
The suggested requirements for the admission to the Urban and Public Affairs doctoral program are as follows:

• Bachelor’s degree with at least a 3.0 GPA (on 4.0 scale);
• Master’s degree with at least a 3.5 GPA (on a 4.0 scale);
• GRE scores: Verbal/Quantitative/Analytical. Minimum level of proficiency required (for PhD work) in all three areas.
• TOEFL: Applicants whose native language is not English and who do not hold a degree from a university where the language of instruction is English must also submit scores from the Test of English as a Foreign Language, with a (normal) minimum score (in the range) of 100 on the internet-based test, or the International English Language Testing System (IELTS), with a (normal) minimum score of 7.5.
• A personal interview with members of the PhD Admissions Committee also may be required for applicants not fully satisfying (normal) admissions requirements. Interviews will be conducted in-person when feasible or via internet video when in-person interviews are not feasible.

Applications must include:

• All transcripts from all institutions attended;
• Supplemental application (available from department web site);
• At least two letters of recommendation (from former professors).

The program gives preference to applicants who intend to study full-time and who can be supported with financial aid (i.e., a Graduate Research Assistantship or a Fellowship).

A few (exceptionally qualified) part-time students may be admitted if they can demonstrate they have very flexible schedules and can attend daytime courses and fully participate in program and department functions.

Students should consult the Program’s Student Guide (http://louisville.edu/upa/programs/phd) for additional details and requirements.

Deadlines
Fall Admissions Deadline: July 15 (before February 1 for a University Fellowship or a Graduate Assistantship)
Spring Admissions Deadline: November 15
Summer Admissions Deadline: April 15

Program Requirements
The PhD in Urban and Public Affairs consists of 48 credit hours of study including:

• 18 credit hours of core courses,
• 18 credit hours in a field specialization, and
• 12 credit hours of dissertation research.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPA 602</td>
<td>Urban Policy and Governance</td>
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<tr>
<td>UPA 603</td>
<td>Urban Economics</td>
<td></td>
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<tr>
<td>UPA 606</td>
<td>Research Methods</td>
<td>1</td>
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<tr>
<td>UPA 610</td>
<td>Urban Theory and Public Affairs</td>
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<tr>
<td>UPA 608</td>
<td>Regression Analysis</td>
<td>1,2</td>
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<tr>
<td>UPA 680</td>
<td>Special Topics in Urban and Public Affairs</td>
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</table>

Field Area Courses 18
Urbanism & Sustainable Development Planning
Required Courses (9 credits) 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>UPA 674</td>
<td>Sustainable Urbanism</td>
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<tr>
<td>or</td>
<td>UPA 652 Urbanism in the Global South: Cities and Space</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>UPA 684 Planning Theory and History</td>
<td></td>
</tr>
<tr>
<td>UPA 670</td>
<td>Sustainable Development and Planning</td>
<td></td>
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<tr>
<td>or</td>
<td>UPA 676 Sustainable Social-Ecological Systems</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>UPA 679 Environmental Policy</td>
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</tr>
<tr>
<td>UPA 640</td>
<td>Economic Development</td>
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<tr>
<td>or</td>
<td>UPA 648 Housing and Community Development</td>
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<td>or</td>
<td>UPA 683 Land Use Planning</td>
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<tr>
<td>or</td>
<td>UPA 623 Comparative Urban Development</td>
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Elective Courses (9 credits) 4

or

Urban Policy and Administration
Required Courses (9-12 credits) 3

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>UPA 621</td>
<td>Policy Analysis and Program Evaluation</td>
<td></td>
</tr>
<tr>
<td>UPA 650</td>
<td>Urban Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>UPA 630</td>
<td>Politics of Urban Policy</td>
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</tr>
<tr>
<td>UPA 661</td>
<td>Foundations of Public Administration</td>
<td>5</td>
</tr>
</tbody>
</table>

Selective Courses (6-9 credits) 4

Dissertation 12

Minimum Total Hours 48

Doctoral Candidacy
After completing all required coursework, including 12 credit hours of dissertation research, and passing the qualifying exam, each student is required to maintain continuous enrollment in DOCT 600 Doctoral Candidacy until he or she graduates.

Workshops
Students must complete workshops satisfactorily. Workshop will be convened by the PhD director and will normally meet 3-5 times a semester.
Dissertation Research Workshop: Students who have recently advanced to candidacy will present dissertation proposal ideas to other students and interested faculty.

Professional Development Workshop: Topics may include: academic publishing, undergraduate teaching, and the academic job market, among others.

1. UPA 606 and UPA 608 require a grade of a full B or better (not a B-minus) to demonstrate proficiency. Students may repeat either of these courses only once.

2. Prior to enrolling in UPA 608, students with limited statistical training may be required to take PADM 601/PLAN 602. However, this course will not count toward the degree program’s 48 credit hour requirement.

3. Other relevant courses can be substituted by approval of Program Director.

4. Electives must be approved by the Program Director.

5. Can be waived; see Student Guide (http://louisville.edu/upa/programs/phd).

Urban Planning (MUP)

Master of Urban Planning (URPLMUP)

Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)

Department: Urban and Public Affairs (https://louisville.edu/upa)

Program Webpage (https://louisville.edu/upa/programs/mup)

Program Information

Fully accredited by the Planning Accreditation Board (PAB) and ranked #23 nationally according in Planning Educators in the 2012 Planetizen guide, the Master of Urban Planning Program strives to play an important role in the University of Louisville’s urban/metropolitan mission by creating the best possible learning environment for the student whose goal is to become a planning practitioner, by advancing the state of knowledge in the planning field through faculty research, and by bringing that knowledge to bear on the challenges facing the community.

The Department of Urban and Public Affairs offers a Master of Urban Planning (MUP) degree in cooperation with the Department of Geography and Geosciences. The MUP Program prepares students to work in a wide variety of fields, including land use and environmental planning, urban design, historic preservation, transportation planning, open space planning, housing planning, economic development planning, real estate development, and the development of geographic information systems. With the continuing expansion of Louisville and the nation’s other metropolitan areas, urban planning is one of the leading professional fields in terms of demand and job satisfaction, according to surveys by Jobs Rated Almanac and the Encyclopedia of Careers and Vocational Guidance.

Students can specialize in one or two of four areas: land use and environmental planning; administration of planning organizations; housing and community development; and spatial analysis for planning. Students have the opportunity to benefit from working on real planning problems through the required internship and studio courses. Studio courses are taught at the Urban Design Studio, located in downtown Louisville and operated by the MUP Program.

The degree requires 48 credit hours (two years of full-time study or the equivalent in part-time study), although up to six (6) credit hours of relevant graduate course work may be transferred into the program. Students may enroll on a part-time or full-time basis. Classes are held in the evenings and on weekends to meet the scheduling needs of persons holding full-time jobs.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Coursework</td>
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<tr>
<td></td>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Concentration</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Internship and Studio</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>48</td>
</tr>
</tbody>
</table>

Admission Requirements

Applicants must hold a bachelor’s degree (any major is acceptable), must have taken the Graduate Record Examination (GRE), and must submit two letters of reference (at least one from someone familiar with the applicant’s academic abilities) and a statement of purpose.

Admission is competitive; successful candidates have received minimum scores of 144 quantitative and 153 verbal GRE and a minimum undergraduate GPA of 3.0 (B).

An application form can be obtained at the program website (http://louisville.edu/upa/programs/mup). All required application materials must first be submitted to the School of Interdisciplinary and Graduate Studies (http://louisville.edu/graduate/apply). Those materials will then be forwarded to the MUP Program for review by the Admissions Committee.

The program will notify the applicant of the Committee’s decision.

Program Requirements

Master of Urban Planning Degree Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 601</td>
<td>Planning Theory and History</td>
<td></td>
</tr>
<tr>
<td>PLAN 602</td>
<td>Statistics for Public Affairs</td>
<td></td>
</tr>
<tr>
<td>PLAN 603</td>
<td>Urban Economics</td>
<td></td>
</tr>
<tr>
<td>PLAN 604</td>
<td>Urban Data Analysis</td>
<td></td>
</tr>
<tr>
<td>PLAN 605</td>
<td>Land Use &amp; Planning Law</td>
<td></td>
</tr>
<tr>
<td>PLAN 606</td>
<td>Professional Practice</td>
<td></td>
</tr>
<tr>
<td>PLAN 618</td>
<td>Urban Demography and GIS</td>
<td></td>
</tr>
<tr>
<td>PLAN 636</td>
<td>Site Planning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Concentration Area (see tab for coursework)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Other Electives</td>
<td>9</td>
</tr>
<tr>
<td>PLAN 649</td>
<td>Planning Internship</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 650</td>
<td>Capstone Studio</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minimum Total Hours</td>
<td>48</td>
</tr>
</tbody>
</table>

Juris Doctor/Master of Urban Planning Dual Degree Program

The Brandeis School of Law will allow students in the dual degree program to apply nine (9) credit hours of approved courses in urban planning as electives toward the JD degree. The Brandeis School of Law will accept each of these urban planning courses on a pass/fail
basis, provided that the student earn at least a B (3.0) in the course. The following MUP courses are approved to be counted as electives toward the JD degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 601</td>
<td>Planning Theory and History</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 501</td>
<td>Urban Environmental Quality</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 607</td>
<td>Land Use Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 612</td>
<td>Mediation and Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 620</td>
<td>Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 609</td>
<td>Public Budgeting and Finance</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 611</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 613</td>
<td>Foundations of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 608</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 621</td>
<td>Urban Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 624</td>
<td>Urban Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 617</td>
<td>Housing and Community Development</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 625</td>
<td>Historic Preservation and Sustainable Practice</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 631</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 633</td>
<td>Real Estate Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Any other MUP course approved by the Associate Dean of Student Life at the Brandeis School of Law, upon individual petition by a dual-degree student.

The urban planning program will allow students in the dual degree program to apply nine (9) credit hours of approved courses in law as electives toward the MUP degree. The urban planning program will accept each of these law courses on a pass/fail basis, provided that the student earn at least a "C" (2.0) in the course. The following JD courses are approved to be counted as electives toward the MUP degree:

- LAW 862 ADMINISTRATIVE LAW
- LAW 841 Energy Law
- LAW 931 Environmental Law
- LAW 820 Constitutional Law II
- LAW 807 PROPERTY II
- LAW 902 Real Estate Transactions
- LAW 839 Water Resources Law and Policy
- Any other JD course approved by the Director of the MUP Program in the School of Urban and Public Affairs, upon individual petition by a dual-degree student.

In addition to the above cross-application of urban planning credits toward the JD degree and of law credits toward the MUP degree, students in the dual degree program shall be required to take UPA 678/PADM 688 Land Use and Planning Law, a 3-credit hour interdisciplinary course cross-listed in both law and urban planning. Land Use and Planning Law (PADM 688) shall count as a three (3) credit hour graded elective toward the JD degree, and likewise shall count as a three (3) credit hour graded elective toward the MUP degree. To receive MUP credit, the student must earn at least a B (3.0) in the course.

### Concentration Requirements

The courses available for each concentration are as follows. Elective and advanced coursework includes 9 credits in an area of concentration (with 3 credits being one required class for the concentration, e.g., PLAN 607 Land Use Planning).

### Administration of Planning Organizations

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 609</td>
<td>Public Budgeting and Finance</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PADM 612</td>
<td>Grantsmanship and Fundraising</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 610</td>
<td>Public Management</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 611</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 612</td>
<td>Mediation and Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 613</td>
<td>Foundations of Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 9

### Housing and Community Development

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PLAN 617</td>
<td>Housing and Community Development</td>
<td>3</td>
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<tr>
<td>Select two courses from the following:</td>
<td>6</td>
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</tr>
<tr>
<td>PLAN 614</td>
<td>Real Estate Market Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 621</td>
<td>Urban Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 622</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 625</td>
<td>Historic Preservation and Sustainable Practice</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 626</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 631</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 633</td>
<td>Real Estate Development</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 635</td>
<td>Comparative Urban Development</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 637</td>
<td>Netherlands: Policy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 651</td>
<td>Urban Design Studio</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 652</td>
<td>Neighborhood Planning Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Total Hours 9

### Land Use and Environmental Planning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PLAN 607</td>
<td>Land Use Planning</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td>6</td>
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<tr>
<td>PLAN 501</td>
<td>Urban Environmental Quality</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 608</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 558 Introduction to Geographic Information Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PLAN 612</td>
<td>Mediation and Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 620</td>
<td>Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 621</td>
<td>Urban Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 622</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 623</td>
<td>Environmental Policy and Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 624</td>
<td>Urban Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 635</td>
<td>Comparative Urban Development</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 651</td>
<td>Urban Design Studio</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 652</td>
<td>Neighborhood Planning Studio</td>
<td>3</td>
</tr>
<tr>
<td>PLAN 680</td>
<td>Special Topics in Urban Planning</td>
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</table>

Minimum Total Hours 9
Spatial Analysis for Planning

<table>
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<tr>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PLAN 619</td>
<td>Urban Geographic Information Systems Applications</td>
<td>3</td>
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</tbody>
</table>

Select two courses from the following:

- PLAN 614 Real Estate Market Analysis
- PLAN 615 Spatial Statistics
- PLAN 616 Analytical Urban Geography
- PLAN 618 Urban Demography and GIS
- PLAN 621 Urban Infrastructure
- PLAN 624 Urban Transportation Planning
- PLAN 628 Economic Conditions and Forecasting

Minimum Total Hours 9

1. Course required for specialization area/concentration

Women's and Gender Studies (CERT)

Graduate Certificate in Women's and Gender Studies (WGSTNON)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Women's and Gender Studies (https://louisville.edu/wgs)
Program Webpage (https://louisville.edu/wgs/graduate-studies/graduate-certificate.html)

Program Information
The Women's and Gender Studies graduate certificate is a 15-credit hour program for students who have completed a BS or BA degree in any field. Students with no prior coursework in Women's and Gender Studies may be required to take classes in preparation for admission to the certificate program.

Admission Requirements
Admission to the graduate certificate in Women's and Gender Studies is open to any student who has completed a BA or BS degree with a 3.0 overall GPA. Students may pursue the certificate outside the framework of a graduate degree program or in conjunction with a graduate degree program in another University of Louisville department.

Students wishing to pursue the certificate must apply for admission to the School of Interdisciplinary and Graduate Studies by:

1. Completing a School of Interdisciplinary and Graduate Studies application form (https://louisville.edu/graduate/apply) and submitting the application fee, and
2. Submitting an official transcript reflecting previous degrees earned.

Students must also send directly to Women's and Gender Studies a one-to-two page letter of intent, describing how the Women's and Gender Studies graduate certificate will further their personal or professional goals.

Students wishing to pursue the graduate certificate in conjunction with a graduate degree program in another University of Louisville department should first apply and be admitted to the degree program before applying for admission to the Women's and Gender Studies graduate certificate program.

Program Requirements

1. Students must complete a total of 15 credit hours in courses approved for graduate credit in accordance with the policies of the School of Interdisciplinary and Graduate Studies, approved by the Women's and Gender Studies director of graduate studies.
2. One course among the 15 credit hours must be WGST 601, WGST 602, or WGST 603.
3. At least two courses must be at the 600-level.
4. Courses must be chosen from both humanities and social sciences disciplines, with consultation of Women's and Gender Studies director of graduate studies.
5. Students pursuing the Women's and Gender Studies certificate in conjunction with a graduate degree program must take at least one course outside of the department in which the student is pursuing the degree.
6. A single course may satisfy more than one requirement.
7. Coursework toward the graduate certificate in Women's and Gender Studies may also count toward the student's graduate degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>WGST 501</td>
<td>Feminist Research in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>WGST 502</td>
<td>Feminist Research and Methods in the Social Sciences</td>
<td></td>
</tr>
<tr>
<td>WGST 503</td>
<td>History of U.S. Feminisms</td>
<td></td>
</tr>
</tbody>
</table>

Choose one course from outside of the department

Choose coursework from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 523</td>
<td>Gender and Popular Music - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 547 or PAS 547</td>
<td>Language, Race, Class, and Gender</td>
<td></td>
</tr>
<tr>
<td>WGST 560 or PHIL 518</td>
<td>Feminist Philosophical Literature</td>
<td></td>
</tr>
<tr>
<td>WGST 571 or M L 506</td>
<td>Francophone Women Writers - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 593</td>
<td>Topics in Women's and Gender Studies: Humanities</td>
<td></td>
</tr>
<tr>
<td>WGST 620 or ENGL 554</td>
<td>Women's Personal Narratives - CUE</td>
<td></td>
</tr>
<tr>
<td>WGST 622</td>
<td>The Body in Popular Media</td>
<td></td>
</tr>
<tr>
<td>WGST 682 or PHIL/ BETH 682</td>
<td>Gender, Race and Culture in Health Care</td>
<td></td>
</tr>
<tr>
<td>WGST 689</td>
<td>Independent Study: Women's and Gender Studies: Humanities</td>
<td></td>
</tr>
<tr>
<td>WGST 692</td>
<td>Advanced Topics in Women's &amp; Gender Studies: Humanities</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 501</td>
<td>Gender, Race, Work, and Welfare</td>
<td></td>
</tr>
<tr>
<td>WGST 512 or SOC 512</td>
<td>Gender, Race, Work, and Welfare</td>
<td></td>
</tr>
<tr>
<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
<td></td>
</tr>
</tbody>
</table>
Women's and Gender Studies (MA)

Master of Arts in Women's and Gender Studies (WGSTMA)
Unit: College of Arts and Sciences (https://louisville.edu/artsandsciences) (GA)
Department: Women's and Gender Studies (https://louisville.edu/wgs)

Program Information

MA in Women's and Gender Studies

The Women's and Gender Studies Master of Arts degree program is open to qualified individuals with a bachelor’s degree from an accredited college or university. Any undergraduate major is acceptable for admission; however, students without some Women's and Gender Studies background may be required to take preparatory courses before beginning the MA curriculum or in addition to the MA curriculum.

The 37-credit hour interdisciplinary degree program is organized around a 19-credit hour core of two introductory seminars, a one-credit research/writing course, and a selection of courses in four areas. In addition to the core, students complete a concentration area and either a thesis or culminating project.

Faculty in the Women's and Gender Studies Department, as well as faculty in other departments of the university, offer courses in the MA program.

The Women's and Gender Studies MA may be completed in four semesters (fall/spring). Most courses are offered in late afternoon or evening. Limited summer offerings are also available.

Accelerated BA-BS/MA in Women's and Gender Studies

Women's and Gender Studies majors who are already thinking about pursuing an MA in Women's and Gender Studies can speed up the process by applying some of their undergraduate credit hours toward a master's degree. The basic idea is to take three graduate-level courses/nine hours (either 500-level with the additional graduate-level assignments, or 600-level) while still an undergraduate, and then have those credits apply both toward the undergraduate degree and towards an eventual master's degree from UofL.

Students in the accelerated Master of Arts in Women's and Gender Studies program may take a maximum of nine hours for graduate credit, which will also apply to the requirements for the baccalaureate degree. To be considered for admission to the Accelerated Master of Arts in Women's and Gender Studies program, students must:

- Complete an application for admission to the Women's and Gender Studies Department's Master of Arts program (including GRE scores, transcripts, two letters of recommendation, a statement of purpose, and a writing sample) no later than the end of their junior year.
- Have a minimum overall grade point average (GPA) of 3.35, a Women's and Gender Studies GPA of 3.35, and meet all other requirements for admission to the Women's and Gender Studies Department's Master of Arts program.

Students must retain a 3.35 GPA in Women's and Gender Studies during their senior year to remain in the program. Once admitted to the accelerated BA/MA program and starting the graduate work, students are expected to maintain a full graduate load of 9 credit hours.

Students in the accelerated BA/MA program must meet all of the MA requirements including receiving at least 18 of their 36-hour program in 600-level, courses.

Dual MSSW/MA in Social Work and Women's and Gender Studies

The dual Master of Science in Social Work/Master of Arts in Women's and Gender Studies program recognizes the value of professional education in two interrelated fields and encourages students who have an interest in both Women's and Gender Studies and Social Work to pursue these degrees simultaneously. Social workers and Women's and Gender Studies scholars often seek to address identical or related societal concerns, albeit from different perspectives; understanding both disciplines enhances one's effectiveness in both the analysis of and engagement
with contemporary social and cultural issues. Women’s and Gender Studies courses strengthen the social worker’s understanding of the historical foundations for policies and structures that have an impact on social institutions and human conditions; Social Work courses help Women’s and Gender Studies scholars or activists to better understand human behavior, conflict resolution and social welfare institutions. A Women’s and Gender Studies and Social Work combination provides the tools of social change for an historic problem of gender inequality and injustice.

The curriculum leading to a dual degree is a 79-credit hour program which combines credits in Women’s and Gender Studies and the Kent School of Social Work. Students take the core curriculum in both programs, but substitute elective hours with MA and MSSW hours. In addition, the Kent School has tailored its second year-long practicum to focus on issues of gender and women, adding that content and experience for the student.

Students must apply and be admitted to both programs in order to pursue the dual degree.

Admission Requirements

Students wishing to be admitted to the MA in Women’s and Gender Studies must meet the following requirements for admission:

1. Students must meet the admission criteria established by the School of Interdisciplinary and Graduate Studies (submit a complete application, submit official transcripts verifying the receipt of a baccalaureate degree from an accredited institution, and pay application fee).
2. Students must have a 3.0 GPA in undergraduate work. Provisional admission is possible for students who do not meet this requirement.
3. Students must submit two letters of recommendation (submitted to the School of Interdisciplinary and Graduate Studies). Letters of recommendation must be current (written within the last year), and letter writers must be familiar with the applicant’s academic preparation for graduate study. Members of the WGS Graduate Admissions Committee may not be letter writers.
4. Students must submit GRE scores to UofL. GRE scores will be one of many factors used in evaluating students for admission.
5. Students must submit one academic writing sample of at least five pages (a paper written as part of the requirements of a university or college course), which should be mailed directly to the Department of Women’s & Gender Studies. The Graduate Admissions Committee will determine whether the student has the necessary level of competence in written communication to enter the MA program.
6. Students must submit a personal statement of one-two pages discussing how the MA in Women’s & Gender Studies relates to the student’s professional or personal goals (mail directly to the Department of Women’s & Gender Studies).

Any undergraduate major is acceptable for admission; however, students without Women’s and Gender Studies background may be required to take preparatory courses before beginning the MA curriculum or in addition to the MA curriculum. This will be determined by the Graduate Admissions Committee.

Up to six (6) hours of graduate-level A- or B-graded work in Women’s and Gender Studies done at another institution may be applied toward the student’s UofL degree, upon approval of the director.

Students enrolled in the UK or WKU graduate certificate programs may transfer up to 12 hours of graduate-level A- or B-graded work, upon approval of the director.

Students must maintain a 3.0 average in order to be in good standing.

Students must apply and be admitted to both programs in order to pursue the dual MSSW/MA degree program. Admission requirements for the Kent School of Social Work (p. 1054) can be found on the MSSW page.

Program Requirements

The MA curriculum includes:

- 18 hours of core courses;
- 9 hours in a concentration;
- a thesis or non-thesis option; and
- three to nine hours of electives, depending on whether the thesis is chosen.

At least 18 of the 36 hours must be in courses at the 600 level.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation Courses</strong></td>
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<tr>
<td>WGST 600</td>
<td>Research/Writing in Women’s and Gender Studies.</td>
<td>1</td>
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<tr>
<td>WGST 601</td>
<td>Feminist Research in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>or WGST 603</td>
<td>History of U.S. Feminisms</td>
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<tr>
<td>WGST 602</td>
<td>Feminist Research and Methods in the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Women’s/Gender History</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
<td></td>
</tr>
<tr>
<td>WGST 591</td>
<td>Topics in Women’s and Gender Studies: Social Sciences (recent example: Global History of Women)</td>
<td></td>
</tr>
<tr>
<td>WGST 630</td>
<td>Feminism in Western Civilization</td>
<td></td>
</tr>
<tr>
<td>WGST 631</td>
<td>Women in the Twentieth Century in Europe and the U.S.</td>
<td></td>
</tr>
<tr>
<td>WGST 632</td>
<td>History of American Sexualities</td>
<td></td>
</tr>
<tr>
<td>WGST 633</td>
<td>Women in 19th-Century America</td>
<td></td>
</tr>
<tr>
<td>WGST 691</td>
<td>Advanced Topics in Women’s &amp; Gender Studies-Social Sciences (recent example: Global History of Women)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Gender, Race, and Colonialism</strong></td>
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<tr>
<td></td>
<td>Select one of the following, not chosen in another category:</td>
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</tr>
<tr>
<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
<td></td>
</tr>
<tr>
<td>WGST 545</td>
<td>Southern Women: Black and White</td>
<td></td>
</tr>
<tr>
<td>WGST 558</td>
<td>Women in Developing Countries - WR</td>
<td></td>
</tr>
<tr>
<td>WGST 591/691</td>
<td>Topics in Women’s and Gender Studies: Social Sciences (recent example: Postcolonial Bodies)</td>
<td></td>
</tr>
<tr>
<td>WGST 593</td>
<td>Topics in Women’s and Gender Studies: Humanities</td>
<td></td>
</tr>
<tr>
<td>WGST 612</td>
<td>Gender, Race, Work, and Welfare</td>
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<tr>
<td>WGST 643</td>
<td>Black Women’s Voices</td>
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</tr>
<tr>
<td>WGST 640</td>
<td>Women’s Health in Africa</td>
<td></td>
</tr>
<tr>
<td>WGST 682</td>
<td>Gender, Race and Culture in Health Care</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
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<td></td>
</tr>
<tr>
<td>WGST 692</td>
<td>Advanced Topics in Women's &amp; Gender Studies-Humanities[^1]</td>
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</table>

**Humanities Perspectives on Women/Gender**

Select one not chosen in another category: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>WGST 520</td>
<td>Women's Personal Narratives</td>
</tr>
<tr>
<td>WGST 560</td>
<td>Feminist Philosophical Literature</td>
</tr>
<tr>
<td>WGST 571</td>
<td>Francophone Women Writers - WR</td>
</tr>
<tr>
<td>WGST 593</td>
<td>Topics in Women's and Gender Studies: Humanities (recent example: Feminist Theology)</td>
</tr>
<tr>
<td>WGST 622</td>
<td>The Body in Popular Media</td>
</tr>
<tr>
<td>WGST 682</td>
<td>Gender, Race and Culture in Health Care</td>
</tr>
<tr>
<td>WGST 692</td>
<td>Advanced Topics in Women's &amp; Gender Studies-Humanities</td>
</tr>
</tbody>
</table>

**Social Science Perspectives on Women/Gender**

Select one not chosen in another category: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 513</td>
<td>U. S. Social Justice Movements</td>
</tr>
<tr>
<td>WGST 538</td>
<td>American Woman in Sports</td>
</tr>
<tr>
<td>WGST 545</td>
<td>Southern Women: Black and White</td>
</tr>
<tr>
<td>WGST 558</td>
<td>Women in Developing Countries - WR</td>
</tr>
<tr>
<td>WGST 591</td>
<td>Topics in Women's and Gender Studies: Social Sciences (recent example: Gender and the Law)</td>
</tr>
<tr>
<td>WGST 612</td>
<td>Gender, Race, Work, and Welfare</td>
</tr>
<tr>
<td>WGST 615</td>
<td>Seminar in the Sociology of Disabilities</td>
</tr>
<tr>
<td>WGST 632</td>
<td>History of American Sexualities</td>
</tr>
<tr>
<td>WGST 640</td>
<td>Women's Health in Africa</td>
</tr>
<tr>
<td>WGST 643</td>
<td>Black Women's Voices</td>
</tr>
<tr>
<td>WGST 656</td>
<td>Feminist Theory</td>
</tr>
<tr>
<td>WGST 691</td>
<td>Advanced Topics in Women's &amp; Gender Studies-Social Sciences</td>
</tr>
</tbody>
</table>

**Concentration**

For the concentration, students take three courses in a concentration, either around a theme or a more traditional grouping 9

**Thesis Option or Non-Thesis Option**

Select the thesis or non-thesis option 9

**Thesis Option**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 695</td>
<td>Women's Studies Practicum (or elective, which need not be in WGS)</td>
</tr>
<tr>
<td>WGST 699</td>
<td>Thesis</td>
</tr>
</tbody>
</table>

**Non-Thesis Option**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 695</td>
<td>Women's Studies Practicum (or elective, which need not be in WGS)</td>
</tr>
<tr>
<td>WGST elective</td>
<td></td>
</tr>
<tr>
<td>WGST 698</td>
<td>Master's Degree Project</td>
</tr>
</tbody>
</table>

**Minimum Total Hours** 37

Up to six (6) hours of graduate-level, A- or B-graded grade work in Women's and Gender Studies done at another institution may be applied toward the student's UofL degree, upon approval of the director.

Students enrolled in the UK or WKU graduate certificate programs may transfer up to 12 hours of graduate-level A-or B-graded work, upon approval of the director.

Students must maintain a 3.0 average in order to be in good standing.

[^1]: As approved by the director of graduate studies
Graduate Course Index

The course index lists courses currently active at the University of Louisville. Not all courses are offered in any given academic term. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

500-level courses often are listed for both graduate and undergraduate students, but offerings may vary and students are responsible for ensuring that they enroll in a course that is applicable to their particular academic programs.

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Specific information can be found on the Office of the Bursar website (http://louisville.edu/bursar/tuitionfee).

Courses By Subject Code

A
- Accounting (ACCT) (p. 1089)
- Anatomical Sciences and Neurobiology (ASNB) (p. 1090)
- Anthropology (ANTH) (p. 1093)
- Art (Studio) (ART) (p. 1096)
- Art History (ARTH) (p. 1101)
- Asian Studies (AST) (p. 1105)
- Audiology (AUDI) (p. 1106)

B
- Biochemistry (BIOC) (p. 1109)
- Bioengineering (BE) (p. 1111)
- Bioethics (BETH) (p. 1114)
- Biology (BIOL) (p. 1115)
- Business Analytics (MSBA) (p. 1120)

C
- Chemical Engineering (CHE) (p. 1121)
- Chemistry (CHEM) (p. 1125)
- Chinese (CHNS) (p. 1129)
- Civil and Environmental Engineering (CEE) (p. 1129)
- Commercial Law (CLAW) (p. 1133)
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Accounting (ACCT)

ACCT 500. Fundamentals of Accounting 3 Units
**Description:** Fundamental principles of accounting needed by the manager. Topics include the assumptions of accounting, recording and reporting transactions; interpretation of data for decision-making purposes.

**Note:** Fulfills a Foundation Core requirement only.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 526. Finance and Accounting Applications in Logistics and Distribution 3 Units
**Prerequisite(s):** MKT 525.
**Description:** Fundamental principles of accounting and finance as applied to logistics and distribution as needed by managers.

**Note:** This course does not fulfill credit for MBA.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 611. Cost and Operations Management 3 Units
**Prerequisite(s):** Admittance to the Master of Accountancy Program.
**Description:** An integrated course using traditional and innovative cost accounting and production management techniques and concepts to analyze decisions necessary to produce goods and provide service.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 615. Advanced Financial and Governmental Accounting 3 Units
**Prerequisite(s):** Admittance to the Master of Accountancy program.
**Description:** Coverage of financial reporting rules and processes for business combinations and governmental and not-for-profit organizations from both a reporting and decision-making perspective.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 620. Management Control Systems 3 Units
**Term Typically Offered:** Occasionally Offered
**Prerequisite(s):** MBA 625.
**Description:** Uses of accounting systems in aiding management control. Transfer pricing, managed costs, cost centers, performance centers, investment centers, activity based management.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ACCT 631. Federal Taxation 3 Units
**Prerequisite(s):** Admittance to the Master of Accountancy Program.
**Description:** Focus is on the individual taxpayer. Coverage includes federal income tax of the individual, income taxation of estates and trusts, retirement and family tax planning, and the estate and gift tax.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ACCT 641. Financial Accounting and Professionalism 3 Units
Prerequisite(s): Admittance to the Master of Accountancy Program.
Description: Covers the standard setting process for generally accepted accounting principles. Includes application of GAAP to create financial statements. Additional focus on the ethical and professional expectations of the CPA.
For class offerings for a specific term, refer to the Schedule of Classes.

ACCT 651. Auditing and Systems 6 Units
Prerequisite(s): Admittance to the Master of Accountancy Program.
Description: Focuses on the design, implementation and documentation of accounting information systems. Emphasis also placed on the internal control system and proper audit trails.
For class offerings for a specific term, refer to the Schedule of Classes.

ACCT 655. Special Topics in Accounting 3 Units
Prerequisite(s): Admittance to the Master of Accountancy Program.
Description: Explores a variety of topics in accounting, auditing, or taxation.
For class offerings for a specific term, refer to the Schedule of Classes.

ACCT 661. Enterprise Resource Planning Systems 3 Units
Prerequisite(s): CIS 610 and CIS 615, or admittance to the Masters of Accountancy Program.
Description: Focuses on the features of an ERP system, the implementation of ERP systems, and internal control issues related to ERP systems. The use of ERP systems in conjunction with electronic commerce will be featured.
For class offerings for a specific term, refer to the Schedule of Classes.

ACCT 680. Special Topics in Accounting 1-6 Units
Description: An advanced study of one or more selected topics or issues related to the study of Accounting.
For class offerings for a specific term, refer to the Schedule of Classes.

ACCT 698. Research Seminar in Accounting 1-3 Units
Prerequisite(s): MBA 625 and permission of the Director of the School of Accountancy.
For class offerings for a specific term, refer to the Schedule of Classes.

Anatomical Sciences and Neurobiology (ASNB)

ASNB 502. Fundamentals of Neuroscience 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PSYC 355 or permission of instructor.
Description: Basics of cellular and systems neuroscience are taught through a combination of lectures and laboratories. Topics include: electrical potentials in the nervous system, synaptic transmission, somatosensory pathways, special senses (vision, hearing, balance, taste, and smell), eye movements, motor systems and higher functions (language, sleep and wakefulness, cognition, emotion and memory).
Note: Credit may not be earned in both ASNB 502 and ASNB 602.

For class offerings for a specific term, refer to the Schedule of Classes.

ASNB 510. Gross Anatomy for Students of Physical Therapy 3 Units
Term Typically Offered: Summer Only
Description: Lectures and laboratory dissection of regions required for students of Physical Therapy.
Note: Limited to students of the Bellarmine University Physical Therapy program.
Note: Limited to 40 students maximum.

For class offerings for a specific term, refer to the Schedule of Classes.

ASNB 601. Gross Anatomy 6.5 Units
Prerequisite(s): Permission from course director at least two weeks before beginning of course.
Description: Primarily a laboratory course. Major emphasis is upon cadaver dissection, but lectures, group discussions, informal laboratory conferences, demonstrations, X-ray presentations are frequent. Correlation of function with structure is stressed in all areas. See Medical School Freshman Schedule for time.
For class offerings for a specific term, refer to the Schedule of Classes.

ASNB 602. Fundamentals of Neuroscience 4 Units
Description: Basics of cellular and systems neuroscience are taught through a combination of lectures, laboratories, and independent study. Lectures concurrent with ASNB 502; one added lecture hour each week covers advanced topics through recent article readings and discussion. Topics covered include: electrical potentials in the nervous system, synaptic transmission, somatosensory pathways, special senses (vision, hearing, balance, taste, and smell), eye movements, motor systems, and higher functions (language, sleep and wakefulness, cognition, emotion and memory).
Note: Credit may not be earned for both ASNB 502 and ASNB 602.

For class offerings for a specific term, refer to the Schedule of Classes.
ASNB 603. Microscopic Anatomy 5 Units
Prerequisite(s): Permission from course director at least two weeks before beginning of course.
Description: Presented as an integrated study of cells, basic tissues, and organ system. The classical light microscopic approaches are supplemented by information derived from electron microscopy.
Note: Cross-listed with ASNB 803.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 605. Human Embryology 3 Units
Prerequisite(s): Permission from course director at least two weeks before beginning of course.
Description: The 2012 embryology course is trying to emphasize the clinical aspect of embryology and to allow students to better understand the importance of this particular pre-clinical subject in their medical education. The embryology material is divided into 7 modules, organized by anatomical systems. Although embryology course runs over 8 weeks period, as much as possible, we tried to match your embryology material with the gross anatomy and histology. Modules contain: descriptive developmental anatomy lectures, clinical lectures.
Note: Cross-listed with IDEP 865.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 606. Anatomy Seminar 1 Unit
Description: Presentations and discussions of individual research or topics of current anatomical interest throughout the year.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 607. Neuroanatomy 3 Units
Prerequisite(s): Consent of course director at least 2 weeks before course begins.
Description: Anatomy of the nervous system (brain and spinal cord) is taught through a combination of self study, lectures and laboratories.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 608. Neural Systems 4 Units
Prerequisite(s): ASNB 607 or consent of course director at least 2 weeks before course begins.
Description: Topics covered include: electrical potentials in the nervous system, synaptic transmission, somatosensory pathways, special senses (vision, hearing, balance, taste, smell), eye movements, motor systems, higher functions (language, sleep and wakefulness, learning and memory). Emphasis is placed on clinical relevance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 610. Neuroscience Methods 1-2 Units
Grading Basis: Pass/Fail
Prerequisite(s): ASNB 502 or 602, or consent of the Course Director.
Description: The primary goal of the Methods course is to provide graduate students with the framework to become familiar with key tools and techniques used in neuroscience research. One method will be learned per credit hour in a laboratory of the students choosing. By the end of the semester, each student will generate a written step-by-step protocol of the technique learned along with a two page description (double-spaced) of the method and its use.
Note: Cross-listed with BIOC 610, MBIO 610, PHTX 610, and PHXB 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 611. Methods in Neurobiology 3 Units
Prerequisite(s): Consent of instructor.
Description: An introduction to the methods used to study the nervous system through a combination of didactic sessions and demonstration and/or hands-on experiences. Topics may include cell and tract labelling, electrophysiology, protein blotting and immunohistochemistry, cell culture microscopy, and basic molecular biology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 612. Cellular Electrophysiology 3 Units
Prerequisite(s): Consent of the instructor.
Description: To provide graduate students in the neurosciences with a solid foundation in electrophysiology, so they can apply electrophysiological concepts and methods to their research activities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 614. Molecular Neuroscience 4 Units
Prerequisite(s): Consent of instructor.
Description: Structure and function of the nervous system from a molecular perspective. Includes description of membrane proteins, channels and receptors in neurons and glia. Discussion of the role of such molecular structures in the nervous system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ASNB 616. Special Projects in Anatomy 1-15 Units
Prerequisite(s): Permission from instructor at least two weeks before beginning of course.
Description: This course, to be arranged to fit individual needs, is intended primarily to accommodate students with special backgrounds in anatomy; it may also be offered for others who have special needs for other advanced training. May be offered each quarter. Schedule to be arranged.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Grading Basis</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASNB 617</td>
<td>Seminar on Developmental Neurobiology</td>
<td>3</td>
<td>7</td>
<td>Pass/Fail</td>
<td>Consent of instructor.</td>
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<td></td>
<td>Description: Covers neural development from neurulation through development of integrated systems. Emphasis will be on the cellular level.</td>
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<tr>
<td>ASNB 618</td>
<td>Laboratory Rotation</td>
<td>1-3</td>
<td>1-6</td>
<td>Pass/Fail</td>
<td>Consent of instructor.</td>
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<tr>
<td></td>
<td>Description: This course will expose new graduate students to the research conducted in laboratories of the faculty of the Department of Anatomical Sciences Neurobiology. The objectives of the laboratory rotations are to expose doctoral students to different approaches and areas of research, and to assist the student in choosing a laboratory for dissertation research.</td>
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<tr>
<td>ASNB 619</td>
<td>Original Investigations</td>
<td>1-15</td>
<td>1-15</td>
<td>Pass/Fail</td>
<td>Consent of instructor.</td>
</tr>
<tr>
<td></td>
<td>Description: This course will expose new graduate students to the research conducted in laboratories of the faculty of the Department of Anatomical Sciences Neurobiology. The objectives of the laboratory rotations are to expose doctoral students to different approaches and areas of research, and to assist the student in choosing a laboratory for dissertation research.</td>
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<tr>
<td>ASNB 620</td>
<td>Thesis</td>
<td>1-6</td>
<td>1-6</td>
<td>Pass/Fail</td>
<td>Consent of instructor.</td>
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<tr>
<td>ASNB 660</td>
<td>Communication Skills</td>
<td>2</td>
<td>2</td>
<td>Pass/Fail</td>
<td>Consent of instructor.</td>
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<tr>
<td>ASNB 665</td>
<td>Techniques of Biological Electron Microscopy</td>
<td>3</td>
<td>7</td>
<td>Pass/Fail</td>
<td>Consent of department required.</td>
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<td>Description: This course aims to develop in the student reasonable proficiency in specimen preparation techniques and operation of the electron microscope as a foundation for the pursuit of electron microscopic biomedical investigations. Limited to four students. Second Semester.</td>
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<tr>
<td>ASNB 666</td>
<td>Synaptic Organization of the Central Nervous System</td>
<td>3</td>
<td>7</td>
<td>Pass/Fail</td>
<td>Consent of instructor.</td>
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<td>Description: An overview of the synaptic organization of the central nervous system will be covered through lectures and discussion of seminal systems neuroscience journal articles. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ASNB 671</td>
<td>General and Oral Histology</td>
<td>5</td>
<td>5</td>
<td>Pass/Fail</td>
<td>Oral Biology major or related field.</td>
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<td>Description: Provides knowledge of histological structure including ultrastructure of tissues and organs. Oral structures presented in detail.</td>
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<tr>
<td>ASNB 672</td>
<td>Survey of Dental Gross and Neuroanatomy</td>
<td>7</td>
<td>7</td>
<td>Pass/Fail</td>
<td>Consent of course director.</td>
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<td></td>
<td>Description: Oral Biology major or related field or consent of course director.</td>
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<tr>
<td>ASNB 675</td>
<td>Advanced Head and Neck Anatomy</td>
<td>2</td>
<td>2</td>
<td>Pass/Fail</td>
<td>Consent of course director at least 2 weeks before course begins.</td>
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<td></td>
<td>Description: Advanced topics in the anatomic relations of the head and neck as applicable to the post-graduate health professional, with major emphasis on cadaver dissection. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ASNB 677</td>
<td>Current Topics in Sensory Systems Research</td>
<td>1</td>
<td>1</td>
<td>Pass/Fail</td>
<td>Consent of course director at least 2 weeks before course begins.</td>
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<td>Description: Recent research directed toward understanding the organization and function of the auditory, gustatory, olfactory, somatosensory, and visual systems will be presented and critiqued. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ASNB 678</td>
<td>Craniomaxillofacial Diagnostic Imaging</td>
<td>2-4</td>
<td>2-4</td>
<td>Pass/Fail</td>
<td>Consent of department required.</td>
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<td>Description: To teach principles of safety, quality assurance, selection criteria and interpretation for current diagnostic imaging modalities of interest to the health care provider treating the craniomaxillofacial complex. Note: Cross-listed with OBIO 612.</td>
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<td>Note: Course given only in the Fall Semester.</td>
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</table>

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 507. Space, Place and Culture 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Graduate status, or consent of instructor.
Description: This course is organized around the question of how culture is spatially distributed. How are specific spaces and places constructed, connected, and interpreted through cultural practices? For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 508. History of Anthropology - CUE, WR 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Senior status, and 18 hours of Anthropology credits.
Description: Class explores the range of questions anthropologists pose and their historical context; how and why are human groups constructed and how are they similar to and different from one another.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Anthropology graduate students cannot enroll in this class.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 509. Archaeological Theory and Methods - WR 3 Units
Prerequisite(s): Junior or senior status, and 18 hours of Anthropology credits.
Description: Archaeological theory and methods emphasizing basic practices and procedures in research skills and writing in archaeology.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Anthropology graduate students cannot enroll in this class.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 511. Ethnographic Methods - WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior or senior status, and 18 hours of Anthropology credits.
Description: Explores the range of qualitative research methods and techniques. Emphasis is on designing and developing a research project and conducting ethnographic fieldwork.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Anthropology graduate students cannot enroll in this class.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 517. Anthropology of China 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Graduate standing or permission of the instructor.
Description: It is widely acknowledged that China is a rising power in the global political economy. However, with the coexistence of tradition and modernity, the nature of Chinese culture and society remains heavily debated. This course explores a wide range of topics and issues that constitute the socio-cultural fabric of contemporary mainland Chinese society. These topics include, but are not limited to, family, gender, ethnicity, religion, education, politics, and economics. Our investigation will focus on two broad themes: 1) the unity and diversity of Chinese society, and 2) the continuity and change that took place from late traditional China to the present. The goal of this course includes learning various aspects of Chinese culture and society, studying diverse anthropological approaches to the study of China, and examining the political dimensions of representation.
Note: Cross-listed with AST 517.
Note: Students may not receive credit for this course and ANTH 317 or AST 317.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 522. Ecology, Politics and Culture 3 Units
Description: This course examines the relations between ecology, economic system, culture, ideology and power relations. The focus moves back and forth between theoretical synthesis and case studies. The case studies are both ethnographic and historical. A few of the themes treated in detail: the role of religious ritual in regulating certain environments; the mutual influences of ecology and political economy in the making of "the Third World"; the local and global politics of national parks; combined and uneven development. Stress is laid on political ecology as a complex, shifting, analytical framework. Questions of sustainability weave in and out of the proceedings. Also emphasized: the story of ecological analysis over the last seventy years is a story about changing relations between anthropology and other social sciences. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 526. Archaeology as Practice 3 Units
Prerequisite(s): ANTH 204.
Description: This course focuses on the analytical techniques that archaeologists use to study the past. Students will learn the practice of archaeology emphasizing modern methods of survey, excavation and analysis used to investigate the past. By the end of the course, students will have learned how to construct their own research plan, collect and analyze their data and draw inferences about the past.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 528. Animals and Humans  3 Units
Description: This course explores the complex and often contradictory ways that humans interact with animals. We cover a range of topics emerging from a multidisciplinary perspective including the origins of hunting and domestication: modern animal economies; cross-cultural attitudes toward animals; symbolic representations of animals in art, literature, religion and folklore; animals as companions; and the status of animals, both wild and domestic, in contemporary society. Students will gain a broad, cross-cultural perspective on the relationship humans have with the rest of the animal kingdom, focused mainly on other mammals. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 529. Zooarchaeology  3 Units
Prerequisite(s): Graduate student status.
Description: The course will provide basic instruction in the identification of animal remains commonly recovered from archaeological sites. It will follow a taphonomic approach to zooarchaeology with an emphasis on understanding and interpreting the formation of archaeological faunal assemblages. The course examines approaches to using bone data to construct and investigate archaeological questions. Students will engage in hands-on identification and interpretation of animal remains commonly found in archaeological sites.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 530. Human Impacts on Past Environments  3 Units
Prerequisite(s): Graduate status, or consent of instructor.
Description: This course is about the archaeological and paleoecological record of past human impacts on Earth. We will explore a number of concepts regarding socio-natural systems including land degradation, perception, resilience and sustainability. The course will provide a background for understanding the ways archaeologists and paleoecologists reconstruct past environments and recognize human impacts. We will examine a number of global case studies and discuss the possible lessons for current and future decision-making in human land-use.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 531. Anthropology of Water  3 Units
Description: Explores the political ecology of water from prehistory to present; integrates the archaeological and historical record with contemporary examples of water management; emphasis on privatization, globalization, and health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 535. Nutritional Anthropology  3 Units
Description: This course provides students with a broad overview of topics in nutritional anthropology; an area of study that is highly multidisciplinary. Students will learn to critically think about the impact of culture concerning the current understanding of nutrition in a biocultural context. The course will range over nutritional aspects of human evolution, federal perspectives on nutrition, aspects of nutritional epidemiology, food and ethnicity, food and self, and obesity as culture bound syndrome.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 540. Health and Civilization  3 Units
Prerequisite(s): Graduate status, or consent of instructor.
Description: Explores biological strategies of human adaptation to different environments from an evolutionary emphasis on plasticity of human evolutionary responses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 549. Modes of Consciousness  3 Units
Term Typically Offered: Occasionally Offered
Description: This course is devoted to examining how consciousness mediates between humans and the wider material world. While all of the concepts central to anthropology and the other social sciences—culture, society, evolution, history, mind, politics, economics—are premised in consciousness, the premise receives attention only sporadically. The attention that has been paid reveals that consciousness is not uniform. It has various modes. Thus the course focuses on these.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 552. Special Topics in Cultural Anthropology  3 Units
Prerequisite(s): Consent of instructor.
Description: An examination of one or more specific areas of social-cultural anthropology. Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 556. Special Topics in Biological Anthropology  1-3 Units
Description: An examination of one or more specific areas of biological anthropology. Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 564. Special Topics in Archaeology  1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ANTH 202 and ANTH 204.
Description: An examination of specific areas of archaeology. Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 578. Lithic Technology  3 Units
Prerequisite(s): One introductory course in ANTH 201, ANTH 202, ANTH 203, or ANTH 204.
Description: This course provides an introduction to the study of stone tool technology. Topics to be covered include broad examination of major changes in stone tool technology during the course of human prehistory (~3.3 million - 10,000 years ago), analytical approaches commonly employed by archaeologists to interpret the lithic record, and experiential learning through knapping and lab exercises. In addition to the hands-on exercises, the course material is supported by films, and readings from the textbooks, and journal articles. Students are required to submit a literature based term paper focusing on ethnographic or archaeological case studies that incorporate lithic datasets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ANTH 579. Ceramic Analysis  
**Description:** Pottery is abundant in many archaeological sites, and the study of pottery has a long history in archaeology. Analysis and interpretation of ceramics has been used by archaeologists to accomplish varied ends: to establish a time scale, to document interconnections between different areas, sites or groups of people, and to suggest what activities were carried out at particular sites. Archaeologists also use ceramics as a basis to understand the organization of ceramic production itself as an important activity. The varied means that archaeologists use to bridge the gap between the recovery of ceramics and their interpretation is the focus of this course.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Consent of instructor, or department chair.

**Units:** 3

ANTH 601. Special Topics in Anthropology  
**Prerequisite(s):** Consent of instructor, or department chair.  
**Description:** Outlines vary as to area of expertise of instructors; objectives aim at the maximum of staff utilization and meeting program needs within the University which call for studies in anthropology as that discipline interrelates with other special knowledge.  
**Note:** Students may take the course as often as topics vary, up to 6 hours.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Consent of instructor, or department chair.

**Units:** 3

ANTH 607. Emergence of Human Culture  
**Prerequisite(s):** Graduate status.  
**Description:** Traces of the origins and development of human culture; focus on technology, social organization, language, food acquisition and sharing, religion and art in both Old and New World.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 608. Social and Cultural Theory  
**Prerequisite(s):** Graduate status.  
**Description:** Examination of how social and cultural theorists construct accounts of human existence that complement and diverge from one another.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 609. Research Design: Archaeology  
**Prerequisite(s):** Graduate status.  
**Description:** Basic practices and procedures in research skills and writing in archaeology; focus on preparing grant proposals; publications and oral presentations.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status and consent of instructor.

**Units:** 3

ANTH 610. Research Design: Biological Anthropology  
**Prerequisite(s):** Graduate status and consent of instructor.  
**Description:** Review of methods, models, and theory from seminal papers and new research in anthropological genetics.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 611. Research Design: Socio-Cultural Anthropology  
**Prerequisite(s):** Graduate status.  
**Description:** Course focuses on developing a substantive research project in cultural anthropology; students will integrate a literature review, theoretical and methodological approaches, and data collection strategies to produce a research proposal.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 612. Seminar: Contemporary Issues in Anthropology  
**Prerequisite(s):** Graduate status.  
**Description:** Team taught course focused on the intertwined contributions of anthropology, biological and cultural anthropology to understandings of theory and method in anthropology. Themes will vary year to year.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 622. Anthropology of Violence  
**Prerequisite(s):** Graduate status.  
**Description:** Seminar on anthropological approaches to the study of violence and human suffering, including political, structural, domestic, and criminal violence. Case studies come from different regions of the world.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 624. Black Cultural Traditions  
**Prerequisite(s):** Graduate status.  
**Description:** Intensive and interdisciplinary approach to production of African-based traditions in the Diaspora; explores sociocultural implications of African-based literacy and arts.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 625. Globalization, Transnationalism, and Anthropology  
**Prerequisite(s):** Graduate status.  
**Description:** Focus on globalization at the local level; how it bears on identities and how subjects construct identities in transnational spaces.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status.

**Units:** 3

ANTH 626. Food Justice  
**Prerequisite(s):** Graduate status or consent of instructor.  
**Description:** This course explores the political, economic, cultural dimensions of hunger, food security, and food justice globally and locally. The concept of food justice has been deployed to capture consumption-based inequalities in access to tasty and nutritious food. The course considers not only justice in terms of dietary and culinary consumption but also such matters as land rights, intellectual patrimonies, migrant farm labor, restaurant working conditions, the concentration of grocery chains, food regulation, international trade rules related to agricultural commodities, and the environmental impacts of farming. The course concludes with a look at transnational efforts to build more just and sustainable food systems.  
For class offerings for a specific term, refer to the Schedule of Classes ([link](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

**Prerequisite(s):** Graduate status or consent of instructor.

**Units:** 3
ANTH 627. Political Economy and Culture 3 Units
**Prerequisite(s):** Graduate status.
**Description:** Examines how anthropologists have used concepts and methods derived from political economy to understand markets, production, power, and cultural practices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 640. Linguistic Anthropology 3 Units
**Prerequisite(s):** Permission from instructor.
**Description:** This course provides an introduction to the field of linguistic anthropology. Topics include: the semiotic properties of human language; principles of linguistic and cultural categorization; language use in social interaction; markers of social identity and relationship; registers of social conduct; the textual organization of discourse; the role of discourse in the formulation of norms, and the institutionalization of modes of conduct.
**Note:** Cross-listed with LING 640.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 650. Health and Disease: A Bio-Cultural Approach 3 Units
**Prerequisite(s):** Graduate student.
**Description:** Focus on the adaptations that made us human and may not fit as well at the present; how human biology and evolution were and are shaped by lifestyles, health, and disease.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 651. Seminar in Biological Anthropology 3 Units
**Prerequisite(s):** Graduate status and ANTH 202.
**Description:** Discusses current issues and debates in biological anthropology; discuss selected papers that have made a fundamental contribution to understanding human evolution.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 653. Human Molecular Evolutionary Genetics 3 Units
**Prerequisite(s):** Graduate status and consent of instructor.
**Description:** Introduction to population genetics theory and a review of the peopling of the world as conceptualized using both molecular and anthropometric data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 662. Special Topics in Cultural Anthropology 3 Units
**Prerequisite(s):** Consent of instructor.
**Description:** An examination of one or more specific areas of social-cultural anthropology.
**Note:** Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 663. Special Topics in Biological Anthropology 1-3 Units
**Description:** An examination of one or more specific areas of biological anthropology.
**Note:** Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 670. Independent Study (Reading) 1-6 Units
**Prerequisite(s):** Graduate status.
**Description:** Intensive reading course under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 671. Independent Study (Research) 1-6 Units
**Prerequisite(s):** Graduate status.
**Description:** Intensive research course under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 672. Thesis 1-6 Units
**Prerequisite(s):** Graduate status.
**Description:** Reading, research, and writing of thesis under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ANTH 673. Internship 1-6 Units
**Prerequisite(s):** Graduate status.
**Description:** Internship in a social service, governmental, or NGO under the supervision of a faculty member. A substantial paper related to the internship is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Art (Studio) (ART)**

ART 504. Directed Study in Painting 1-3 Units
**Prerequisite(s):** ART 502 and BFA Candidacy; or faculty consent.
**Description:** A focused, in-depth exploration of self-generated problems in painting.
**Note:** May be repeated up to a maximum of 12 credit hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 506. Themes and Concepts in Drawing 3 Units
**Prerequisite(s):** ART 305 and BFA Candidacy; or faculty consent.
**Description:** Individual problems stressing development of personal imagery and concepts and optional media and approaches. Coursework may include work from nude models.
**Note:** Formally taught as Advanced Drawing Concepts.
**Note:** May be repeated to a maximum of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 507. Directed Study in Drawing 1-3 Units
Prerequisite(s): ART 505 or ART 506; and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in drawing.
Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 508. Art Education Methods and Research I 3 Units
Prerequisite(s): Fine Arts majors only.
Description: Art education methods and current research readings to satisfy Kentucky certification requirements for teachers of art in grades K-12.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 509. Anatomy & Life Drawing 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 305 and BFA candidacy; or faculty consent.
Description: The study of human anatomy for the artist as visual structural form with emphasis on skeletal system, and movement; muscle system, and surface features. Course work may include drawing from nude models.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 510. Design for Visualizing Data and Information 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 351 or faculty consent.
Description: Exploration of the design and production of a variety of formats (charts, tables, maps, diagrams) and challenges (presenting the information in a visually engaging way with accuracy and integrity); targeting a variety of audiences. Emphasis is placed on both the thinking and the making that goes into a successfully designed data visualization.

Note: This course satisfies an elective for completion of the BFA in Graphic Design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 512. Directed Study in Glass 1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 511 and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in Glass. Emphasis is placed on realization and execution of ideas.

Note: May be repeated up to 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 518. Art Education Methods and Research II 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Fine Arts majors only.
Description: Art education methods and current research readings to satisfy Kentucky certification requirements for teachers in grades 7-12.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 523. Directed Study in Sculpture 1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ART 521 and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in sculpture.

Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 534. Directed Study in Ceramics 1-3 Units
Prerequisite(s): ART 531 and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in clay and ceramics.

Note: May be repeated up to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 543. Directed Study in Printmaking 1-3 Units
Prerequisite(s): ART 541 and BFA Candidacy; or faculty consent.
Description: Experimentation on individual problems in printmaking.

Note: Formerly ART 527.

Note: May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 551. Lighting and View Camera 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ART 351 or faculty consent.
Description: Exploration of black and white photography emphasizing techniques and processes as well as conceptual problem solving.

Note: Formerly taught as Photography Techniques and Processes.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 552. Color Imaging 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 351 or faculty consent.
Description: Exploration of color photography concepts and digital media utilizing photographic principles and techniques.

Note: Formerly Color Photography.

Note: May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ART 554. Alternative and Historic Photographic Processes 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ART 351 or Faculty Consent.
Description: Exploration of historic and alternative methods of photographic image making. Students will gain an understanding of historic photographic principles in a historic context.

Note: May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ART 555. Directed Study in Photography  1-3 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** ART 351, BFA Candidacy, or faculty consent.  
**Description:** Experimentation on individual problems in photography.  
**Note:** May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 556. Experimental Photography**  3 Units  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** ART 351; or faculty consent.  
**Description:** Experimentation with historic and alternative photographic methods of image making.  
**Note:** May be repeated up to 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 557. Advanced Photography**  3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** ART 551 and ART 552, or faculty consent.  
**Description:** Working in a variety of photographic media including color, black and white, and alternative processes, students develop a personal portfolio and understanding of contemporary issues in photography.  
**Note:** Formerly taught as ART 553.  
**Note:** May be repeated to a maximum of 6 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 571. Special Problems in Studio Art**  1-3 Units  
**Prerequisite(s):**ART 581 or ART 582; and BFA Candidacy; or faculty consent.  
**Description:** Advanced exploration of a particular theme, medium or combination of media outside the scope of established departmental curriculum, with emphasis on individual problems.  
**Note:** May be repeated with different subtitles to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 584. Directed Study in Fiber and Mixed Media Art**  1-3 Units  
**Prerequisite(s):** ART 581 or ART 582; and BFA Candidacy; or faculty consent.  
**Description:** Experimentation on individual problems in fiber and mixed media art.  
**Note:** May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 585. Book Art Concepts**  3 Units  
**Prerequisite(s):** BFA candidacy or faculty consent.  
**Description:** An introduction to traditional and non-traditional book arts with focus on the construction of traditional book forms such as folded bindings, Japanese stab bindings, portfolios, as well as types of multi-signature bindings. Emphasis will be placed on the book as an art form incorporating concept, design, content, and craft.  
**Note:** May be repeated to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 590. Special Problems in Studio Art**  3 Units  
**Prerequisite(s):** BFA Candidacy or faculty consent.  
**Description:** Advanced exploration of a particular theme, medium or combination of media outside the scope of established departmental curriculum, with emphasis on individual problems.  
**Note:** May be repeated with different subtitles to a maximum of 12 hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 595. Independent Study**  1-3 Units  
**Prerequisite(s):** Minimum grade point average of 3.0 overall, and minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.  
**Description:** Advanced exploration of a particular theme, medium or combination of media outside the scope of established departmental curriculum, with emphasis on individual problems.  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Graduate standing.  
**Description:** Reports, critiques, presentations and discussions on personal research and current topics in the visual arts.  
**Note:** Cross-listed with ARTH 600 and CCS 600.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 600. Graduate Seminar**  1 Unit  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Graduate standing.  
**Description:** Reports, critiques, presentations and discussions on personal research and current topics in the visual arts.  
**Note:** Cross-listed with ARTH 600 and CCS 600.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ART 601. Workshop in Painting**  3 Units  
**Prerequisite(s):** Four semesters of undergraduate painting.  
**Description:** Concentrated study in advanced contemporary painting problems, with strong emphasis on independent visual thought.  
**Note:** May be repeated, but no more than 18 hours can be credited to MA.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 602</td>
<td>Professional Practice in Painting</td>
<td>3</td>
<td>MFA Standing, or faculty consent.</td>
<td>Individual research and professional practice in painting.</td>
<td></td>
</tr>
<tr>
<td>ART 605</td>
<td>Workshop in Drawing</td>
<td>3</td>
<td>Four semesters of undergraduate drawing.</td>
<td>Concentrated study of contemporary concepts and theories leading to independent visual thought expressed through drawing techniques.</td>
<td></td>
</tr>
<tr>
<td>ART 606</td>
<td>Professional Practice Drawing</td>
<td>3</td>
<td>MFA standing, or faculty consent.</td>
<td>Individual research and professional practice in drawing.</td>
<td></td>
</tr>
<tr>
<td>ART 611</td>
<td>Workshop in Glass</td>
<td>3</td>
<td>Graduate status or consent of instructor.</td>
<td>Concentrated pursuit of creative concepts using glass. Refinement of conceptual and practical glassmaking fundamentals.</td>
<td></td>
</tr>
<tr>
<td>ART 612</td>
<td>Professional Practice in Glass</td>
<td>3</td>
<td>MFA standing or faculty consent.</td>
<td>Individual research and professional practice in glass.</td>
<td></td>
</tr>
<tr>
<td>ART 621</td>
<td>Workshop in Sculpture</td>
<td>3</td>
<td>Four semesters of undergraduate sculpture.</td>
<td>Concentrated study of sculptural problems and techniques.</td>
<td></td>
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<tr>
<td>ART 622</td>
<td>Professional Practice in Sculpture</td>
<td>3</td>
<td>MFA standing or faculty consent.</td>
<td>Individual research and professional practice in sculpture.</td>
<td></td>
</tr>
<tr>
<td>ART 631</td>
<td>Workshop in Ceramics</td>
<td>3</td>
<td>Consent of instructor.</td>
<td>Advanced individual projects and experimentation.</td>
<td></td>
</tr>
<tr>
<td>ART 632</td>
<td>Professional Practice in Ceramics</td>
<td>3</td>
<td>MFA Standing or faculty consent.</td>
<td>Individual research and professional practice in ceramics.</td>
<td></td>
</tr>
<tr>
<td>ART 641</td>
<td>Workshop in Printmaking</td>
<td>3</td>
<td>Four semesters of undergraduate printmaking.</td>
<td>Concentrated study leading to independent visual thought.</td>
<td></td>
</tr>
<tr>
<td>ART 642</td>
<td>Professional Practice in Printmaking</td>
<td>3</td>
<td>MFA Standing or faculty consent.</td>
<td>Individual research and professional practice in printmaking.</td>
<td></td>
</tr>
<tr>
<td>ART 643</td>
<td>Independent Study</td>
<td>1-15</td>
<td>Consent of instructor.</td>
<td>Credit according to achievement.</td>
<td></td>
</tr>
<tr>
<td>ART 644</td>
<td>Independent Study</td>
<td>1-15</td>
<td>Consent of instructor.</td>
<td>Credit according to achievement.</td>
<td></td>
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<tr>
<td>ART 645</td>
<td>Thesis Guidance</td>
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<td>ART 646</td>
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ART 651. Workshop in Photography
Prerequisite(s): Four semesters of undergraduate photography, and consent of instructor.
Description: Concentrated study of photographic techniques and theory leading to independent visual thought.
Note: May be repeated, but no more than 18 hours can be counted toward a MA.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 652. Professional Practice in Photography
Prerequisite(s): MFA standing, or faculty consent.
Description: Individual research and professional practice in photography.
Note: May be repeated but no more than 18 hours may be applied to MFA.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 672. Professional Practice in Graphic Design
Term Typically Offered: Occasionally Offered
Prerequisite(s): MFA Standing or faculty consent.
Description: Individual research and professional practice in graphic design.
Note: May be repeated but no more than 18 hours may be applied to MFA.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 681. Workshop in Fiber/Mixed Media
Prerequisite(s): Consent of instructor.
Description: Concentrated study of fiber problems and techniques with emphasis on development of student's individual direction.
Note: May be repeated, but no more than 18 hours can be credited to MA.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 683. Professional Practice in Fiber/Mixed Media
Prerequisite(s): MFA standing or faculty consent.
Description: Individual research and professional practice in fiber/mixed media.
Note: May be repeated but no more than 18 hours may be applied to MFA.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 690. MFA Projects: Studio
Term Typically Offered: Fall Only
Prerequisite(s): MFA Standing or faculty consent.
Description: Offered in the fall semester by a member of the studio faculty in an appropriate studio space or workspace; this course provides an opportunity for MFA candidates to develop their work in the studio with guidance and input from studio faculty and peers. The primary components of the curriculum are supervised studio work, group critiques, and individual meetings. This course is required in semesters 1, 3, and 5 for students enrolled in the MFA program; and may be taken as an elective in semesters 2, 4, and 6, if desired.

Note: No more than 18 hours may be applied to MFA.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 691. Professional Practice in Studio Art
Term Typically Offered: Fall, Spring
Prerequisite(s): MFA standing or faculty consent.
Description: Interdisciplinary investigation in advanced contemporary visual problems leading to independent visual thought.
Note: May be repeated, but no more than 18 hours may be counted toward MFA.

Note: Formerly taught as Workshop in Studio Art.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 692. Art, Thinking & Social Change
Prerequisite(s): MFA standing or faculty consent.
Description: Studio art course that integrates aesthetics, critical theories and practice of art. Students will think creatively to produce artwork that transcends the confines of mediums, to reflect upon philosophical issues, to critique historical and current events, and to examine the boundary between aesthetics and ethics.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 693. MFA Seminar I
Prerequisite(s): MFA Standing or faculty consent.
Description: Reports, critiques, presentations, discussions on current topics in the visual arts.
Note: MFA Seminar I to be taken in the second semester.

For class offerings for a specific term, refer to the Schedule of Classes.

ART 694. MFA Seminar II
Prerequisite(s): MFA Standing or faculty consent.
Description: Reports, critiques, presentations, and discussions on current topics in the visual arts.
Note: MFA Seminar II to be taken in the third semester.

For class offerings for a specific term, refer to the Schedule of Classes.
ART 695. MFA Seminar III
Prerequisite(s): MFA standing or faculty consent.
Description: Reports, critiques, presentations, and discussions on current topics in the visual arts.
Note: MFA Seminar III to be taken in the fourth semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 501. Advanced History and Issues of Graphic Design
3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BFA Graphic Design Candidacy or faculty consent.
Description: The themes, styles, expressions, technologies and artists that contributed to contemporary graphic design, with special consideration on the period from 1800 to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 521. Studies in Modern Art
3 Units
Prerequisite(s): One 300-level course in Modern Art or consent of instructor.
Description: Reconstruction and interpretations of modern artistic aspirations through study of sources and documents by artists, critics and historians.
Note: May be used to satisfy the Period/Area 2 - after-1750 requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 523. History of Performance Art
3 Units
Prerequisite(s): ARTH 270 and ARTH 325; or permission of instructor; or graduate standing.
Description: History of Performance Art is designed as an advanced upper-level seminar that investigates the international, historical developments in Performance Art after World War II. It considers the experimental strategies and ideological aims of visual artists who used their bodies as the primary vehicle of expression, information, communication, and social change. Performance Art has had the dubious distinction of being the most censored art medium, and since the 1960s artists have been continually arrested and fined for their work. This is a highly significant social fact, one that draws attention to Performance Art's particularly disruptive aesthetic codes and materials-emphasizing presentation over representation; intersubjective, human bodies over inanimate objects; and temporarily over spatiality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 524. Installation Art
3 Units
Prerequisite(s): ARTH 270 and ARTH 325; or permission of instructor; or graduate standing.
Description: Installation Art is an advanced exploratory seminar that investigates a contemporary art form as well as a thorny art-historical problem: the term "installation" now functions both as a loose descriptor for a myriad of contemporary artworks (having supplanted terms such as Assemblage and Environment) independent of medium and context, as well as a general and comprehensive art-historical genre-a circumstance that has its own compelling historical development. As a course, Installation Art is designed so that students can grapple with a central issue for contemporary art—the definition of a burgeoning critical term for art history.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 506. Studies in Contemporary Art
3 Units
Prerequisite(s): ARTH 320, or ARTH 321, or ARTH 325 or or ARTH 326, or permission of the instructor.
Description: An advanced-level seminar on special topics in contemporary art.
Note: May be used to satisfy the Period 2/Area - after-1750 requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 531. Studies in Asian Art 3 Units
Prerequisite(s): One 300-level course in Asian Art, or consent of instructor.
Description: Selected topics that examine the development of art and architecture in the context of the social and cultural history of China and Japan.
Note: Cross-listed with AST 531.
Note: May be used to satisfy the Period/Area 3 - Non-Western requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 541. Theories & Methods of Art History 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of the instructor.
Description: Theories & Methods of Art History introduces students to various art historical and interdisciplinary theoretical perspectives and methodological approaches that have shaped the understanding, interpretation, and production of visual art and culture in the nineteenth century to the present. The course will explore these theories and methods as specific fields of inquiry (discourses as such) through the study of primary texts, secondary or applied texts, artists' writings and artworks.
Note: May be used to satisfy an ARTH elective for the BA in Art History.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 542. Special Topics 3 Units
Prerequisite(s): Permission of the instructor.
Description: Content to be indicated in schedule of courses.
Note: May be taken with four different subtitles to a maximum of 12 hours.
Note: Satisfaction of curricular requirement determined by individual course content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 543. Independent Study 1-3 Units
Prerequisite(s): Minimum grade point average of 3.0 overall, and minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department, or consent of instructor.
Description: Topic and content to be determined in consultation with instructor.
Note: Satisfaction of curricular requirement determined by individual course content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 544. Pan-African Art: Form and Content 3 Units
Prerequisite(s): Permission of the instructor.
Description: Similarities and differences in African-American folk art, Caribbean folk art, and traditional African art.
Note: Cross-listed with PAS 581.
Note: May be used to satisfy the Period/Area 3 - Non-Western requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 547. Introduction to Critical and Curatorial Studies I 3 Units
Prerequisite(s): Consent of instructor.
Description: An introduction to curatorial practice of the last 30 years. Focusing on the curator's increasingly prominent role in the reception and synthesis of contemporary art, the course explores developments in exhibition design in terms of art production, international exchange, globalization, and critical theory.
Note: Cross-listed with CCS 547.
Note: A student may only receive credit for only one of the courses: ARTH 547, CCS 547, ARTH 647, CCS 647.
Note: Formerly Museum Methods I.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 548. Critical and Curatorial Studies II 3 Units
Prerequisite(s): ARTH 547, or CCS 547, or ARTH 647, or CCS 647, or consent of instructor.
Description: This seminar is structured as a curatorial practicum. Students work with the professor to develop and produce an exhibition from the university's print collection. Throughout the semester, weekly readings and presentations focus on contemporary exhibition practice as well as on the theoretical and critical concerns undergirding the student's developing exhibition.
Note: Cross-listed with CCS 548.
Note: A student may receive credit for only one of the following courses: ARTH 548, ARTH 648, CCS 548 and CCS 648.
Note: Formerly taught as Museum Methods II.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 549. Contemporary Trends in African-American Art 3 Units
Prerequisite(s): One 300-level art history course or faculty consent.
Description: Survey of contemporary African American art since the 1960s into current trends today. Examination of contemporary paintings, sculpture, fabric art, folk art, public art, and installation art.
Note: Cross-listed with PAS 509.
Note: Undergraduate credit may not be earned for this course and ARTH 349 and ARTH 329.
Note: May be used to satisfy the Period 3/Area - Non-Western requirement.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 551. Studies in Ancient Art 3 Units  
**Prerequisite(s):** ARTH 351, or ARTH 353, or consent of instructor.  
**Description:** Selected topics in ancient art and architecture.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 552. Ancient Painting 3 Units  
**Prerequisite(s):** ARTH 351, or ARTH 353, or consent of instructor.  
**Description:** A study of mural painting from the ancient cultures of Egypt, the Aegean, Greece and Italy.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 553. Ancient Cities 3 Units  
**Prerequisite(s):** ARTH 351, or ARTH 353, or consent of instructor.  
**Description:** A study of the development of the city in the Mediterranean region from prehistoric times to the late Roman Empire.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 561. Studies in Medieval Art 3 Units  
**Prerequisite(s):** One 300-level course in Medieval art or architecture, or consent of instructor.  
**Description:** Studies in the art and architecture of the Middle Ages emphasizing a synthesis of the arts in a particular period or place.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 571. Studies in Renaissance Art 3 Units  
**Prerequisite(s):** One 300-level course in Renaissance art, or consent of instructor.  
**Description:** Study of a major phase of painting or sculpture, fifteenth or sixteenth century, in Italy or Northern Europe, with emphasis on sources and development of style.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 581. Studies in Baroque Art 3 Units  
**Prerequisite(s):** ARTH 381 or consent of instructor.  
**Description:** Study of one of the leading artists of the seventeenth and eighteenth centuries, such as Bernini, Borromini, Tiepolo, Velazquez, Rembrandt, Rubens, or Watteau.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 593. Studies in Modern Architecture 3 Units  
**Prerequisite(s):** One 300-level course in Modern architecture, or consent of instructor.  
**Description:** Principal forms and theories of urban and building design in relation to social forces in modern Europe and America.  
**Note:** May be used to satisfy the Period/Area 2 - after-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 595. Studies in American Art 3 Units  
**Prerequisite(s):** Consent of instructor.  
**Description:** A study of mural painting from the ancient cultures of Egypt, the Aegean, Greece and Italy.  
**Note:** May be used to satisfy the Period/Area 1 - Pre-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 597. Studies in Photographic History 3 Units  
**Prerequisite(s):** Consent of instructor.  
**Description:** The aesthetic development of photography, with emphasis on U.S. photographers and contemporary issues relevant to the medium.  
**Note:** May be used to satisfy the Period/Area 2 - after-1750 requirement.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 599. Graduate Seminar 1 Unit  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Graduate standing.  
**Description:** Reports, critiques, presentations and discussions on personal research and current topics in visual arts.  
**Note:** Cross-listed with ART 600 and CCS 600.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 621. Topics in Modern Art 3 Units  
**Prerequisite(s):** Consent of instructor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ARTH 623. History of Performance Art 3 Units  
**Prerequisite(s):** Graduate standing.  
**Description:** Consideration of investigation of experimental strategies and ideological aims of visual artists who used their bodies as the primary vehicle of expression, information, communication, and social change. Performance Art has had the dubious distinction of being the most censored art medium, and since the 1960’s artists have been continually arrested and fined for their work. This is a highly significant social fact, one that draws attention to Performance Art’s particularly disruptive aesthetic codes and materials, emphasizing presentation over representation; intersubjective, human bodies over inanimate objects; and temporality over spatiality.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 624. Installation Art
Prerequisite(s): Graduate standing.
Description: An advanced exploratory seminar that investigates a contemporary art form as well as a thorny art-historical problem: the term “installation” now functions both as a loose descriptor for a myriad of contemporary artworks (having supplanted terms such as Assemblage and Environment) independent of medium and context, as well as a general and comprehensive art-historical genre—a circumstance that has its own compelling historical development. The course is designed so that students can grapple with a central issue for contemporary art—the definition of a burgeoning critical term for art history.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 625. Representations of Trauma in the Visual Arts
Prerequisite(s): Graduate standing.
Description: This seminar examines the changing relationships between trauma and its representation in the twentieth century. Beginning with the Holocaust, the course charts a trajectory from this most profound of collective traumas, to the refinement of clinical definitions of trauma (e.g., PTSD) in the wake of the Vietnam War, to the development of trauma studies in the humanities in the 1990s, to the recent “pictorial turn” within scholarship on trauma. This historical framework will be brought to bear upon the dynamics of how trauma and visuality have been approached by scientists, scholars, and artists.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 626. Topics in Contemporary Art
Prerequisite(s): Permission of instructor.
Description: An advanced-level seminar on special topics in contemporary art.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 631. Topics in Asian Art
Prerequisite(s): Restricted to graduate students or consent of instructor.
Description: Advanced study on selected topics in Asian art and architecture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 641. Seminar in Art History
Prerequisite(s): Consent of instructor.
Description: Exploration of core problems in iconography, formal analysis, criticism, or historiography.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 642. Theories & Methods of Art History
Prerequisite(s): Graduate standing, or permission of the instructor.
Description: Introduces students to various art historical and interdisciplinary theoretical perspectives and methodological approaches that have shaped the understanding, interpretation, and production of visual art and culture from the nineteenth century to the present. The course will explore these theories and methods as specific fields of inquiry (discourses as such) through the study of primary texts, secondary or applied texts, artists’ writings and artworks.
Note: This course is required for completion of all graduate degrees in the Department of Fine Arts (MA, MFA, PhD).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 643. Independent Study
Prerequisite(s): Consent of instructor.
Description: Credit according to achievement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 644. Independent Study
Prerequisite(s): Consent of instructor.
Description: Credit according to achievement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 645. Thesis Guidance
Grading Basis: Pass/Fail
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 646. Thesis Guidance
Grading Basis: Pass/Fail
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 647. Introduction to Critical and Curatorial Studies I
Prerequisite(s): Consent of instructor.
Description: An introduction to curatorial practice of the last 30 years. Focusing on the curator’s increasingly prominent role in the reception and synthesis of contemporary art, the course explores developments in exhibition design in terms of art production, international exchange, globalization, and critical theory.
Note: Cross-listed with CCS 647.
Note: A student may only receive credit for only one of the following courses: ARTH 547, CCS 547, ARTH 647, CCS 647.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ARTH 648. Critical and Curatorial Studies II 3 Units
Prerequisite(s): ARTH 547, or CCS 547, or ARTH 647, or CCS 647, or consent of instructor.
Description: This seminar is structured as a curatorial practicum. Students work with the professor to develop and produce an exhibition from the university’s print collection. Throughout the semester, weekly readings and presentations focus on contemporary exhibition practice as well as on the theoretical and critical concerns undergirding the student’s developing exhibition.
Note: Cross-listed with CCS 648.
Note: A student may receive credit for only one of the following courses: ARTH 548, ARTH 648, CCS 548 and CCS 648.
Note: Formerly taught as Museum Methods II.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 651. Topics in Ancient Art 3 Units
Prerequisite(s): Consent of instructor.
Description: Advanced study on selected topics in ancient art and architecture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 661. Topics in Medieval Art 3 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 671. Topics in Renaissance Art 3 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 681. Topics in Baroque Art 3 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 693. Topics in Modern Architecture 3 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 695. Topics in American Art 3 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 699. Topics in Urban History 3 Units
Prerequisite(s): Consent of instructor.
Description: Advanced research in urban history from an architectural standpoint.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 743. Directed Reading for Comprehensive Exams (Major) 2-12 Units
Grading Basis: Pass/Fail
Prerequisite(s): Completion of coursework for the PhD.
Description: To be taken by doctoral students who have completed all coursework and are preparing for the major comprehensive exam.
Note: May be repeated up to 12 hours but only 2 hours count towards degree requirements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 744. Directed Readings for Comprehensive Exams (Minor) 1-9 Units
Grading Basis: Pass/Fail
Prerequisite(s): Completion of all coursework for the PhD.
Description: To be taken by doctoral students who have completed all coursework and are preparing for the minor comprehensive exam.
Note: May be repeated up to 9 hours but only 1 hour counts toward degree requirements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ARTH 745. Dissertation Research 1-12 Units
Grading Basis: Pass/Fail
Prerequisite(s): Permission of dissertation director.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Asian Studies (AST)

AST 500. Topics in Asian Studies-Humanities 3 Units
Description: Selected topics in Asian studies from a humanities perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AST 501. Topics in Asian Studies-Social Sciences 3 Units
Description: Selected topics in Asian studies from a social science perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
AST 517. Anthropology of China 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Graduate standing or permission of the instructor.
Description: The creation of modern nation-states in China, Japan, and Korea from 1840 to 1945.
Note: Cross-listed with HIST 598.

For class offerings for a specific term, refer to the Schedule of Classes.

AST 531. Studies in Asian Art 3 Units
Prerequisite(s): One 300-level course in Asian art, or consent of instructor.
Description: Select topics that examine the development of art and architecture in the context of social and cultural history of China and Japan.
Note: Cross-listed with ARTH 531.

For class offerings for a specific term, refer to the Schedule of Classes.

AST 598. Nationalism and Modernity in East Asia 3 Units
Description: The creation of modern nation-states in China, Japan, and Korea from 1840 to 1945.
Note: Cross-listed with HIST 598.

For class offerings for a specific term, refer to the Schedule of Classes.

AST 641. Clash of Civilizations in the 21st Century 3 Units
Description: This course examines three major civilizations (Western, Islam, and Chinese) and their roles in international relations in the 21st century.
Note: Cross-listed with POLS 641.

For class offerings for a specific term, refer to the Schedule of Classes.

Audiology (AUDI)

AUDI 600. Anatomy and Physiology of Hearing 3 Units
Description: Intensive study of the gross aspects of anatomy associated with normal hearing, including the peripheral and central auditory system.
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 604. Essential Techniques in Audiometry for Pediatrics and Adults 3 Units
Description: The epidemiology of hearing loss. Basic tests of auditory function including pure tone audiometry, speech audiometry and immittance. Focus on both pediatric and adult aspects of testing, with additional topics related to newborn testing. Principles of masking and pathologic correlates of hearing loss discussed.
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 605. Introduction to Audiological Techniques and Rehabilitation 1-3 Units
Description: This course provides an introduction to the evaluation, screening and habilitation/rehabilitation of adults and children with hearing impairment. Topics include tests of auditory function, effects of auditory pathology, and amplification.
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 606. Acoustics and Speech Acoustics 3 Units
Description: Study of sound and its measurement. Relationship of sound to human hearing. Speech acoustics and perception of speech.
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 608. Auditory Anatomy & Physiology II 3 Units
Description: Structure and function of the central auditory system with an emphasis on electrophysiologic assessment of cortical and subcortical pathways for clinical purposes.
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 610. Clinical Clerkship I 1 Unit
Description: A two-semester sequence of directed observation in the audiology clinic. Participation in interviewing patients, eliciting a complete history, preparing written technical reports and record keeping. Includes observations during the first semester. 1 credit hour each semester.
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 612. Pathology of the Auditory-Vestibular System 3 Units
For class offerings for a specific term, refer to the Schedule of Classes.

AUDI 614. Clinical Techniques in Audiology I 1 Unit
Description: Part one of a two-semester sequence of directed laboratory exercises. Laboratory exercises will give students hands-on experience with clinical techniques designed to evaluate hearing.
For class offerings for a specific term, refer to the Schedule of Classes.
AUDI 615. Clinical Techniques in Audiology II  
**Description:** Part two of a two-semester sequence of directed laboratory exercises. Laboratory exercises will give students hands-on experience with clinical techniques designed to evaluate hearing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 616. Genetics and Hearing Loss  
**Description:** Fundamentals of genetics, modes of inheritance, genetic syndromes affecting the auditory system, ethical implications of genetic testing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 618. Instrumentation and Electronics in Audiology  
**Description:** Basics of electronic circuitry, especially in audiometric instrumentation and amplification systems. Includes instrumentation calibration, trouble-shooting and repair. Analog, analog-digital hybrid, and digital signal processing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 619. Audiologic Counseling & Patient Communication  
**Description:** An exploration of the communication and counseling relationship between student clinician and patient. Students will have an opportunity to develop and refine effective communication and counseling via interaction with standardized patients and personal reflection. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 620. Clinical Clerkship II  
**Description:** A three-semester sequence of introductory level clinical audiology under the aegis of an experienced clinician. Mastery of basic skills such as threshold determination for pure tones and speech stimuli, masking, auditory discrimination measurements, tympanometry, and calibration. 2 credit hours each semester. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 621. Audiologic Rehabilitation  
**Description:** Management strategies for hearing loss beyond the hearing aid. Topics include auditory training, speech reading, communication repair strategies, counseling, adjustment to hearing aids, assistive listening devices and cochlear implants. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 622. Electrophysiologic Techniques in Audiology  
**Description:** Principles of biological potentials, signal averaging, amplification and filtering. Clinical utility of the brainstem auditory evoked response with attention to diagnostic techniques and peripheral hearing assessment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 623. Audiologic Electrophysiology II  
**Description:** Clinical acquisition of middle and late auditory evoked potentials with applications for both diagnostic and rehabilitative ideology. Equal emphasis is placed on acquisition and interpretation of those evoked responses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 624. Amplification Technology  
**Description:** Principles of amplification electronics, electroacoustics and acoustics in audiologic (re)habilitation. Real ear measurements. ANSI specifications. Earmold acoustics. Modifying acoustical parameters. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 625. Audiologic Counseling  
**Prerequisite(s):** Students in Doctor of Audiology Program.  
**Description:** Review of the complex psychosocial and emotional aspects arising within families in the presence of both pediatric and adult hearing loss. Examination of counseling approaches for "non-professional" counseling. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 626. Assessment and Management of Vestibular Disorders  
**Description:** Study of the contribution of the vestibular system to balance and orientation. Technologies and procedures for assessing the dizzy patient. Management of vestibular disorders. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 628. Differential Diagnosis in Audiology  
**Description:** Interpreting the audiologic test battery. Integrating audiologic test results with other diagnostic procedures (i.e., radiologic, neurologic, pathologic, etc). Advanced concepts in test construction, delivery and interpretation. Using test results to plan remediation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 629. Cochlear Implants and other Implantable Hearing Devices  
**Description:** Comprehensive Study of cochlear implantation, BAHA and middle ear implantation including: general anatomy, device components, patient selection and evaluation, speech coding strategies, mapping, programming, troubleshooting, and verification. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 630. Amplification Selection and Fitting  
**Description:** Determining candidacy and benefit from amplification. Selecting appropriate amplification systems and options including assistive listening devices and implantable technologies. Review of current technologies and their clinical efficacy. Introduction to the business aspects of hearing aid dispensing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
AUDI 632. Professional Issues in Audiology 2 Units
Description: Overview of the social, political, ethical, and economic climate in hearing health care delivery. Interprofessional relationships and responsibilities. Licensure and certification.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 634. Electrophysiologic Techniques in Audiology II 1 Unit
Description: This course introduces brain imaging techniques for cognitive brain research in Audiology with a focus on late auditory event-related potentials (ERP’s). The course will focus on four main areas: 1) theory; 2) experimental design; 3) data collection, analysis, and interpretation; and 4) the use of late potentials in audiological practice. Basic tutorials on EEG and ERP software packages will include ASA and EEGLAB.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 635. Audiology Internship 4 Units
Description: A three-semester sequence of supervised patient care in a variety of sites closely associated with the university. Student clinicians will assume increasing responsibility for the full range of basic and intermediate level audiologic procedures and interpretation. 4 credits each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 636. Pediatric Audiology 2 Units
Description: Hearing disorders and audiologic techniques in the pediatric population. Topics include identification audiometry (screening protocols), childhood aural pathologies and treatment options, behavioral audiometry, and current management options.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 638. Educational Audiology 3 Units
Description: Overview of current management options for the (re)habilitation of children with hearing loss, including: educational issues, amplification, FM systems, classroom listening systems and counseling.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 640. Special Topics in Audiology 1-3 Units
Description: An elective course designed to focus on specific topics in audiology. Subject matter to be determined by the faculty and students. May be repeated to a limit of 6 credits.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 642. Gerontologic Audiology 3 Units
Description: N
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 646. Medical Audiology 3 Units
Description: Intensive study of the medical correlates of hearing impairment including medical/surgical intervention, pharmacology. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 648. Hearing Science I 3 Units
Description: This course is the first in a two-course sequence in hearing science. It will survey contemporary theory and research in audition, with emphasis on modern mathematical and psychophysical methods. Major topics will include the anatomy and physiology of the auditory system, measurement and control of sound, auditory signal analysis, and basic auditory abilities such as detection, discrimination, and masking.
Note: Cross-listed with PSYC 646.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 650. Research Methods 3 Units
Description: Students will design a clinical research project through: a critical review of the literature, determination of appropriate research design, and a statistical review. Students will prepare an application for the Human Studies Protection Program Office.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 652. Prevention of Hearing Loss 2 Units
Description: Focuses on the effect of noise on the auditory system, noise measurement and abatement, hearing conservation programming, OSHA standards, etc. The medical-legal aspects of hearing impairment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 654. Advanced Auditory Processing 3 Units
Term Typically Offered: Spring Only
Description: Special study of the central auditory nervous system with attention to normal and disordered auditory function past the auditory periphery (e.g., linguistic, cognitive, and suprathreshold deficit consideration). Assessment and current strategies for management of auditory processing disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 656. Practice Management in Audiology 3 Units
Description: Organizing, managing and expanding an audiologic practice. Determining costs and fees, accounts management, quality assurance, third-party reimbursement, contracting for services, demographic trends, business and professional ethics, professional liability, marketing, certification and licensure.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
AUDI 660. Investigation in Audiologic Practice 1-3 Units
Description: Directed course in which students investigate specific clinical problems in audiology. Will include research on a topic of clinical or professional interest. Investigation eventuates in a publishable paper. May be repeated to a maximum of 9 credits.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 670. Clinical Externship 9 Units
Description: A 3-semester sequence of advanced clinical practicum under the direction of a faculty member or preceptor in an external practicum. Each externship is custom-tailored to the interests of the trainee. May involve relocation or travel. 8 credits each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 679. Independent Study in Audiology 1-6 Units
Prerequisite(s): Requires consent of instructor in order to register.
Description: Individualized course with topics determined by student and instructor. May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

AUDI 680. Special Topics in Audiology 1-3 Units
Term Typically Offered: Fall Only
Description: Discussion covering current ideas in audiology as they relate to clinical practice and research. An emphasis is placed on contemporary and/or advanced topics relevant for the more experienced student.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Biochemistry (BIOC)

BIOC 545. Biochemistry I 3 Units
Description: Chemistry of amino acids, peptides, proteins, nucleotides and nucleic acids; methods of analysis and laboratory synthesis; nucleotides; RNA, DNA and protein biosynthesis.
Note: Credit may not be earned in both BIOC 545 and BIOC 645.
Note: Credit may not be applied toward an advanced degree in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 547. Biochemistry II 3 Units
Prerequisite(s): BIOC 545.
Description: Cellular metabolism of carbohydrates, lipids, amino acids and biomembrane phenomena, enzyme properties, kinetics, and control mechanisms; ligand binding.
Note: Credit may not be earned in both BIOC 547 and BIOC 647.
Note: Credit may not be applied toward an advanced degree in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 603. Special Topics in Biochemistry 1-4 Units
Prerequisite(s): BIOC 645 and BIOC 647 (or concurrently), or consent of instructor.
Description: Arranged to fit individual needs on topics of current interest or to receive some advanced training or conduct research project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 606. Biochemistry Seminar 1 Unit
Description: Both Fall and Spring semesters.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 611. Advanced Techniques in Biochemistry and Molecular Biology 4 Units
Prerequisite(s): BIOC 645 or equivalent; restricted to Biochemistry & Molecular Genetics graduate students.
Description: An introduction to modern biochemical and molecular biology methods in lecture and laboratory format. Methodologies covered include: DNA cloning and sequencing, RNA isolation and quantitative PCR, bioinformatics analysis, transfection and RNA knockdown approaches, immunoprecipitations and protein detection, and enzyme characterization.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 613. Biochemistry Laboratory 2-4 Units
Grading Basis: Pass/Fail
Description: The course will consist of participation in the research programs of two laboratories in the department. A half-semester will be devoted to each laboratory. Pass/Fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 619. Research 1-15 Units
Grading Basis: Pass/Fail
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 620. Scientific Method and Grant Writing 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): Restricted to students in the Biochemistry and Molecular Genetics graduate programs; permission of course director.
Description: This objective of this course is to introduce students to the fundamentals of grantsmanship. The topics incorporate all aspects for grant application process as well as overview of the scientific method, generation of hypotheses, and research design. Student-directed learning is a major component for this course with the summative event being completion of a grant proposal. A reiterative writing process for proposal development will be ongoing throughout the course.
Note: May be repeated once for up to 4 credits.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOC 630. Responsible Conduct of Research: Survival Skills and Research Ethics 1-4 Units
Grading Basis: Pass/Fail
Description: The topics covered include 11 areas of Research Compliance training mandated by the NIH for training grants and focuses on contemporary research ethics in biomedical sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 640. Principles of Biochemistry 5 Units
Prerequisite(s): Consent of instructor.
Description: Covers general aspects of biochemistry with special emphasis given to areas applicable to dentistry. Topics include protein structure and function; chemistry and metabolism of carbohydrates, lipids, amino acids, and nucleotides; molecular genetics; nutritional biochemistry; calcification; and molecular endocrinology. Clinical conferences key to current lecture topics are presented by clinical faculty. Spring.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 645. Advanced Biochemistry I 4 Units
Description: Chemistry of amino acids, peptides, proteins, nucleotides and nucleic acids; methods of analysis and laboratory synthesis; nucleotides; RNA, DNA and protein biosynthesis.
Note: Credit may not be earned in both BIOC 545 and BIOC 645.
Note: Credit may not be applied toward an advanced degree in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 647. Advanced Biochemistry II 4 Units
Prerequisite(s): BIOC 645.
Description: Cellular metabolism of carbohydrates, lipids, amino acids and nucleotides; enzyme properties, kinetics, and control mechanisms, ligand binding; biomembrane phenomena.
Note: Credit may not be earned in both BIOC 547 and BIOC 647.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 660. Molecular Biology and Genetics 4 Units
Prerequisite(s): BIOC 645 and BIOC 647 or consent of course director.
Description: This course examines the fundamental principles of genetics and molecular biology as they apply to molecular and cellular processes. Topics include: Mendelian, population, and quantitative genetics; epigenetics; bioinformatics; mechanisms controlling transcriptional and post-transcriptional regulation of gene expression: RNA and miRNA biology; and protein synthesis and regulation. An emphasis will be on reading and critiquing current literature.
Note: Crosslisted with BIOL 668.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 664. Biomedical Research Data Analysis Methods 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Summer Only
Prerequisite(s): Currently enrolled graduate students in good standing.
Description: A lecture and discussion course designed for graduate students desiring to learn the basic statistical methods and data presentation approaches that are used in biomedical research.
Note: This course requires permission from the instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 667. Cancer Biology 4 Units
Prerequisite(s): BIOC 545 or BIOC 645 or equivalents.
Description: A comprehensive course on cancer biology with emphasis on molecular mechanisms and research. Topics will include: the public health impact of cancer, molecular mechanisms of carcinogenesis and metastasis, host-tumor interactions, current and future molecular therapies and prevention, apoptosis, tumor immunology, cancer genetics and genomics, prevention, metabolism in cancer cells, signal transduction, cell cycle, and oncogenes and tumor suppressor genes. There will also be clinical-based lectures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 668. Molecular Mechanisms of Toxicology 3 Units
Prerequisite(s): BIOC 668 or approval by course directors or program directors.
Description: Molecular interactions of drugs and toxicants on cellular processes; including foreign compound metabolism, signal transduction, cell cycle, DNA repair/DNA replication are covered and put in context.
Note: Crosslisted with PHTX 661.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 670. Biomedical Research Data Analysis Methods 1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Summer Only
Prerequisite(s): Currently enrolled graduate students in good standing.
Description: A lecture and discussion course designed for graduate students desiring to learn the basic statistical methods and data presentation approaches that are used in biomedical research.
Note: This course requires permission from the instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOC 662. Biomolecular Interactions 2 Units
Prerequisite(s): BIOC 645 and BIOC 647 or equivalents.
Description: This course examines techniques used to characterize biomolecules and their interactions including surface plasmon resonance, equilibrium dialysis, microcalorimetry, analytical ultracentrifugation, dynamic light scattering and absorption fluorescence and circular dichroism spectrosopies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
# Bioengineering (BE)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Consent of Instructor.</th>
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<tbody>
<tr>
<td><strong>BE 500. Special Topics in Bioengineering</strong></td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>BE 420.</td>
<td>This course will be devoted to topics that usually are not treated in detail in the general curriculum. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 522. Biomedical Acoustics</strong></td>
<td>3</td>
<td>Spring Only</td>
<td>BE 420.</td>
<td>An introduction to the fundamental principles of physical acoustics with an emphasis on biomedical applications. Major concepts covered include (i) acoustic wave physics, (ii) transducers, and (iii) ultrasound imaging. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td><strong>BE 540. Machine Learning in Medicine</strong></td>
<td>3</td>
<td>Spring Only</td>
<td>BE 420.</td>
<td>Topics: 1) fundamentals of medical data, 2) application of machine learning models &amp; algorithms to medicine, 3) learning from data &amp; classification of disorders, and 4) overview of health data, collection with sensors, body area networks, brain Image data and other publicly available medical applications data. Students will learn about machine learning applications to real world medical data through examples and reading papers. Students are expected to work on a team project and write technical reports. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 551. Gene and Drug Delivery</strong></td>
<td>3</td>
<td>Fall Only</td>
<td>BE 354 and BE 450, or graduate standing.</td>
<td>This course covers advanced topics of gene and drug delivery, including the physiological barriers and challenges to delivery. Biomaterials used in delivery, considerations for specificity of drug/gene targeting, nanoscale delivery vehicles, the delivery of biologies and vaccines, and intracellular delivery. In addition, this course integrates literature and discussion regarding specific platform design and delivery considerations against cancer, viral, and bacterial applications. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 552. Introduction to Tissue Engineering</strong></td>
<td>3</td>
<td>Spring Only</td>
<td>CHEM 341, BE 354, BE 359, and BE 450.</td>
<td>Design, development and clinical application of tissue engineered components, including blood vessels, bone, cartilage, pancreas, liver and skin, for use in the human body. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 553. Nanoscale Bioengineering: Application and Methodology of Nanobiomaterials in Bioengineering</strong></td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>BE 450 or BE 453 or permission of department chair.</td>
<td>An introduction to the fundamental principles of nanobiomedical materials with a focus on (i) synthetic methodologies of tailored nanobiomaterials (physical, chemical and electrochemical), (ii) nanobiomaterial characterization using advanced analytical, microscopic and spectroscopic techniques, and (iii) therapeutic and diagnostic applications. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 581. Advanced Computer Aided Design and Manufacturing for Bioengineers</strong></td>
<td>3</td>
<td>Fall Only</td>
<td>BE 340 or by permission of Department Chair.</td>
<td>An introduction to the engineering design and manufacturing processes for bioengineering applications with an emphasis on the use of modern computer-based analysis, design and presentation tools as well as manufacturing techniques such as casting, machining, forming and assembly for polymer and metal-based materials. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 593. Independent Study in Bioengineering</strong></td>
<td>1-4</td>
<td>Fall, Spring, Summer</td>
<td>Faculty consent.</td>
<td>A theoretical or experimental investigation of a problem area related to Bioengineering. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td><strong>BE 600. Advanced Topics in Bioengineering</strong></td>
<td>1-6</td>
<td>Fall, Spring, Summer</td>
<td>Graduate/Professional Standing in Bioengineering or Consent of Instructor.</td>
<td>An advanced course in bioengineering topics not covered by regularly scheduled courses. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td><strong>BE 601. Bioengineering Doctoral Seminar</strong></td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Admission to PhD in Interdisciplinary Studies with a Specialization in Translational Bioengineering.</td>
<td>Current research topics in the field of translational bioengineering will be presented and discussed. Sessions will include guest speakers, student presentations on research projects with interaction and feedback from students and faculty, and critical discussion of scientific literature. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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BE 602. Graduate Internship in Bioengineering 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): Admission to Graduate Study and Chair Permission.
Description: This course provides the structure and focus for the graduate internship field assignment to ensure that the assignment is appropriate and consistent with the intern's graduate course of study and professional development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 603. Bioengineering Research Ethics 2 Units
Prerequisite(s): Admission to the PhD in interdisciplinary Studies with a Specialization in Translational Bioengineering or by permission of Department Chair.
Description: Complex ethical issues facing bioengineers will be addressed, including conflicts of interest, patient rights, protection, beneficence and confidentiality, equitable allocation of scarce health resources, research misconduct, animal experimentation, and clinical trails for new medical devices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 605. Tissue & Molecular Biology Techniques Laboratory 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): BE 359 or equivalent.
Description: Introduces students to techniques used in tissue and molecular biology laboratories including cell and tissue culture, cell assays, cell and tissue imaging techniques and sterilization techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 611. Cardiovascular Dynamics 3 Units
Prerequisite(s): Graduate or professional standing in Bioengineering.
Description: Review of basic cardiovascular physiology. Application of basic engineering principles, including electrical and mechanical analog models to describe cardiovascular function and data acquisition and analysis techniques to develop medical devices and instrumentation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 621. Bioinstrumentation 4 Units
Term Typically Offered: Fall Only
Prerequisite(s): Graduate/Professional Standing; and BE 354 and BE 423 or equivalent(s); or consent of instructor.
Description: Analysis and design of Bioinstrumentation. Basic circuitry, electronics and laboratory techniques including sensors, transducers, biopotentials, amplifiers, measurement and safety.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 630. Biomechanical Computer Modeling and Simulation of Human Movement 3 Units
Prerequisite(s): Graduate/professional standing; BE 354 or equivalent.
Description: Development and application of musculoskeletal computer modeling and simulation techniques to analyze human movement biomechanics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 639. Injury Biomechanics 3 Units
Prerequisite(s): ME 649 or BE 354 or equivalent, or permission of the instructor.
Note: Cross-listed with ME 639.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 640. Computational Methods for Medical Image Analysis 3 Units
Prerequisite(s): BE 420.
Description: This course covers the theory of stochastic and geometric models of medical imaging, including spatial interaction models, intensity models, and geometric shape models. The emphasis is on understanding the underlying mathematics in a practical sense.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 650. Advanced Biomaterials 3 Units
Prerequisite(s): BE 450 or consent of instructor.
Description: Advanced topics on the use of biomaterials, and their performance, in reconstructive surgery. Specifically skin, nerve, bone, and soft tissue regeneration utilized for burn patients, cancer patients, and trauma patients.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 654. Advanced Physiology for Engineers 3 Units
Prerequisite(s): BE 354.
Description: This course provides an in-depth view of the fundamental principles of how biochemistry and physiology are integrated. Emphasis is placed on the physiologic mechanisms for feedback control of physiologic function in humans.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 658. Rehabilitation Engineering and Assistive Technology 3 Units
Prerequisite(s): ME 649 or BE 354 or equivalent or permission of instructor.
Description: Introduction to rehabilitation engineering and assistive technology. Medical aspects of disability, assistive technology applications and current rehabilitation research.
Note: Cross-listed with ME 658.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 668. Translational Bioengineering teaching Practicum 2 Units
Prerequisite(s): Admission to Translational Bioengineering PhD program and permission of course instructor.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in engineering education that includes field experience as a graduate instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**BE 680. Bio-Micro**  
3 Units  
**Prerequisite(s):** Graduate/Professional standing and ECE 543, or instructor’s permission.  
**Description:** Application of microtechnology principles to the biomedical field in areas that include tissue engineering, lab-on-a-chip, biosensors, drug delivery, etc. Application-specific criteria supporting the need for miniaturization.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 681. Biomedical Microfluidics**  
3 Units  
**Description:** Provides students with an overview of microfluidics and device design considerations, introduce commonly used fabrication techniques to accomplish design, fabrication and validation of a device for an application in cell or molecular biology.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 683. Artificial Organs**  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** Graduate/professional standing in bioengineering.  
**Description:** Bioengineering design of artificial organ replacement systems and their clinical usage. Commercially available systems analyzed for mass transfer efficiency; biomechanics and hemodynamics; and size and efficiency of the device.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 685. Modeling of Biological Phenomena**  
3 Units  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** Graduate/professional standing in Bioengineering, BE 359 and BE 354 or equivalent(s).  
**Description:** Current research topics in the field of translational bioengineering will be presented and discussed. Sessions will include guest speakers, student presentations on research projects with interaction and feedback from students and faculty, and critical discussion of scientific literature.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 691. Bioengineering Non-thesis Design/Research Project**  
3 Units  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** Graduate/Professional standing in bioengineering, BE 491, and BE 497.  
**Description:** Design or research project involving a literature search, project planning, design objectives, fabrication and/or experimentation, analysis, technical report writing, and oral presentation under a faculty member’s guidance. Final technical report is required to be presented orally to course instructor and faculty mentor for graded evaluation.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 692. Bioengineering Clinical Rotation**  
2 Units  
**Prerequisite(s):** Successful completion of Translational Bioengineering qualifying exam, permission of advisor and program director, and HIPAA certified.  
**Description:** Students will observe day to day clinical activities associated with patient care by participating in clinical rounds and/or scheduled specialty clinics led by residents, fellow and/or clinical faculty. Exposure to the clinical setting will allow students to gain an understanding of concepts such as patient history, disorder/disease presentation, diagnostics, clinical decision making, treatment modalities, disease management, procedures and clinical outcomes. Students must work with their PhD advisor and the ISSTBE-PhD Program Director to identify clinical rotation opportunities in specialty areas of interest within the Schools of Medicine or Dentistry.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 693. Independent Study in Bioengineering**  
1-6 Units  
**Prerequisite(s):** Faculty consent.  
**Description:** An advanced theoretical or experimental investigation of a problem area related to Bioengineering.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 695. Bioengineering Research Design & Methods**  
3 Units  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** Graduate/Professional standing.  
**Description:** Focus on study designs & methodologies and their appropriate application. Emphasis placed on development of specific aims, testable hypotheses, and interpretation and communication of research findings. Data analysis concerns and strategies for parametric and non-parametric applications will be addressed using SPSS. Students will learn to communicate scientific methodologies and findings, and to interpret their  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 697. Master of Engineering Thesis in Bioengineering**  
1-6 Units  
**Prerequisite(s):** Graduate/Professional standing in bioengineering.  
**Description:** Original design or research activity in a bioengineering discipline, under the direction of a faculty member. A written thesis must be presented to a faculty committee and defended.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BE 698. MS Thesis in Bioengineering**  
1-6 Units  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Graduate or Professional school standing and permission of Department Chair.  
**Description:** Experimental or design-based thesis research performed as part of Master of Science degree requirements. A written thesis is required to be presented and defended orally and submitted to the faculty for approval.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BE 699. Dissertation Research 3-15 Units
Prerequisite(s): Successful completion of the Translational Bioengineering PhD qualifying exam.
Description: Original research activity in an appropriate translational bioengineering discipline, under the direction of a graduate faculty member affiliated with PhD in Interdisciplinary Studies with a Specialization in Translational Bioengineering (ISSTBE PHD). For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BE 700. Dissertation Research-Translational Bioengineering 1-15 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Dissertation director approval.
Description: Program director approval for initial credits. Original research activity in bioengineering under the direction of a Bioengineering graduate faculty member. Permission of program director required to register for initial credits. Permission of dissertation director required. A written dissertation must be submitted to a dissertation examination committee. The dissertation must also be orally defended. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Bioethics (BETH)

BETH 601. Independent Study in Bioethics: 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Independent study in Bioethics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BETH 605. Selected Topics in Bioethics 3 Units
Prerequisite(s): To be determined by instructor, in the light of the topic chosen for that semester.
Description: Selected topics in Bioethics (variable content). For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BETH 621. Ethical Theory 3 Units
Prerequisite(s): Admission into the Bioethics MA program, or consent of instructor.
Description: Recent developments in ethical theory, such as examination of the status of moral facts, moral realism, impartiality and personal attachments, or moral agency.
Note: Cross-listed with PHIL 521, PHIL 621.

BETH 680. Foundations of Bioethics 3 Units
Prerequisite(s): Admission into Bioethics MA program, or consent of instructor.
Description: Grounding in the major theories and methods of bioethical decision-making, including contemporary controversies about the role of theory, principles, cases, narrative, and virtues.
Note: Cross-listed with PHIL 680, PHIL 580.

BETH 681. Current Controversies in Health Care Ethics 3 Units
Prerequisite(s): Admission into Bioethics MA program, or consent of instructor.
Description: Topics in health care ethics currently attracting the most attention in both professional and public discussions. A variety of viewpoints on the topics will be considered.
Note: Cross-listed with PHIL 681, PHIL 581.

BETH 682. Gender, Race and Culture in Health Care 3 Units
Prerequisite(s): Admission into Bioethics MA program, or consent of instructor.
Description: Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.
Note: Cross-listed with PHIL 682 & WGST 682, PHIL 582 & WGST 582.

BETH 683. Health Care, Justice, and Community 3 Units
Prerequisite(s): Admission into the Bioethics MA program, or consent of instructor.
Description: Examines theories of justice and equality as they apply to issues in health care delivery, considers explanations for why disparities exist, and explores practical ways that communities have addressed inequalities.
Note: Cross-listed with PHIL 683, PHIL 583.

BETH 684. Clinical Ethics 3 Units
Prerequisite(s): Admission into the Bioethics MA Program, or consent of instructor.
Description: Application of ethical principles, virtues, and cases in the context of clinical care, with a practical approach toward ethics, consultation and conflict resolution.
Note: Cross-listed with PHIL 684.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BETH 685. Integrative Bioethics: Self and Other in Theory and Practice 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Admission to Bioethics MA program, or consent of instructor.
Description: Capstone for Bioethics MA program in form of collaborative seminar. Students produce a culminating project, whose development and final formal presentation they share with their peers and community.
Note: Cross-listed with PHIL 685.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Biology (BIOL)

BIOL 501. Independent Study 1-3 Units
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 502. Independent Study 1-3 Units
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 512. Endocrinology 3 Units
Prerequisite(s): BIOL 465.
Description: Chemical regulation in animals.
Note: Credit may not be earned in both BIOL 512 and BIOL 612.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 519. Ichthyology 3 Units
Prerequisite(s): BIOL 363.
Description: Introduction to anatomy, physiology, ecology, distribution, economic importance, and classification of major groups and representative local species of fish.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 522. Aquatic Ecology 4 Units
Prerequisite(s): BIOL 363.
Description: Ecological processes in aquatic environments with primary emphasis on lakes and reservoirs.
Note: Credit may not be earned in both BIOL 522 and BIOL 622.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 542. Gene Structure and Function - WR 3 Units
Prerequisite(s): BIOL 330 or equivalent, or consent of instructor.
Description: Advanced topics in genetics of prokaryotes and eukaryotes, including chromosome structure and function, and gene regulation.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both BIOL 542 and BIOL 642.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 548. Experimental Design and Analysis - CUE 3 Units
Prerequisite(s): BIOL 350 or BIOL 651.
Description: Move principles of sound experimental design, analysis and presentation from recognition to active vocabulary. Students completing the course can serve as statistical consultants for moderately complex statistical designs.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 560. Ecology of Urban and Suburban Landscapes 3 Units
Prerequisite(s): BIOL 363 or GEOS 365.
Description: Effects of cities and suburban sprawl on air and water chemistry, microclimate, fragmented landscapes, and responses of biotic and human communities to these conditions that degrade or promote urban resilience, adaptation and sustainability.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 562. Ecosystems Ecology 3 Units
**Prerequisite(s):** BIOL 363; an advanced ecology course recommended.
**Description:** The transformations of matter and energy that link plant, animal and geochemical cycles. Implications for resource management also discussed.
**Note:** Credit may not be earned in both BIOL 562 and BIOL 662.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 563. Population and Community Ecology 3 Units
**Prerequisite(s):** BIOL 363.
**Description:** Introduction to population dynamics and species interactions in aquatic and terrestrial ecosystems. Review of underlying ecological theory and its applications for conserving biodiversity.
**Note:** Credit may not be earned in both BIOL 563 and BIOL 663.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 567. Conservation Biology 3 Units
**Prerequisite(s):** BIOL 363 or permission of instructor.
**Description:** This course provides an overview of theory and practice of conservation. Topics include biodiversity, habitat loss, the effects of habitat changes on populations, and the design and establishment of reserves. Among other things, students will learn: 1) key terms and concepts related to biodiversity, 2) significant threats to biodiversity and efforts to mitigate them, and 3) practical and socioeconomic elements of conservation biology.
**Note:** Credit may not be earned for both BIOL 567 and BIOL 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 569. Evolution 3 Units
**Prerequisite(s):** BIOL 363.
**Description:** Offers a comprehensive overview of evolution and provides students with a review of issues that make up this critical discipline.
**Note:** Credit may not be earned in both BIOL 569 and BIOL 669.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 571. Selected Topics 3 Units
**Term Typically Offered:** Occasionally Offered
**Description:** Contents to be indicated in schedule of courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 593. Experimental Cell Biology for Teachers 3 Units
**Prerequisite(s):** BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330, and BIOL 331 or equivalent; or consent of instructor.
**Description:** Lecture and lab activities focused on inquiry-based investigations at the cellular level suitable for secondary school classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 594. Experimental Botany for Teachers 3 Units
**Prerequisite(s):** BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330, BIOL 331 or equivalent, or consent of instructor.
**Description:** This course is designed for pre-service and classroom teachers of the life sciences from elementary through high school. To increase teachers’ abilities to teach sciences, especially botany, using inquiry-oriented strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 600. Graduate Seminar I 1 Unit
**Prerequisite(s):** Graduate status.
**Description:** Covers professional development for graduate students in all fields of biology. Topics include both time management, how to collect and record data, data management, communication with advisor and advisory committee, finding a research question, grant proposals and funding, scientific ethics, use of graphics, writing and reviewing scientific papers, and careers and interviews. Each student will write a short grant proposal, review a scientific paper, and make a short oral presentation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 601. Graduate Seminar II 1 Unit
**Prerequisite(s):** Graduate status.
**Description:** Focuses on developing presentation skills for graduate students in all fields of biology. We will also discuss how to evaluate presentations. Each student will make a presentation on research in their area of interest and will respond to audience questions. Students will provide written feedback to each other on their presentations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 610. Advanced Behavioral Ecology 4 Units
**Prerequisite(s):** BIOL 363.
**Description:** Evolution of behavioral adaptations for survival and reproduction; topics will include foraging, aggression, mate choice, mating strategies, and sociality.
**Note:** Credit may not be earned for both BIOL 510 and BIOL 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 611. Advanced Behavioral Endocrinology 4 Units
**Prerequisite(s):** Graduate standing.
**Description:** Interactions of hormones, brain and behavior. Lecture concurrent with Biology 511; more advanced material through requirement of independent study or research project.
**Note:** Credit may not be earned in both BIOL 511 and BIOL 611.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 612. Advanced Endocrinology 4 Units
Prerequisite(s): BIOL 465.
Description: Chemical regulation in animals, primarily mammals. Lectures concurrent with BIOL 512; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 512 and BIOL 612.

BIOL 614. Advanced Ornithology 4 Units
Prerequisite(s): Consent of instructor.
Description: Evolution, morphology, diversity, ecology and behavior of birds. Lab stresses field identification of birds. Lecture concurrent with BIOL 514; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 514 and BIOL 614.

BIOL 615. Advanced Environmental Physiology 4 Units
Prerequisite(s): BIOL 465 or consent of instructor.
Description: Comparative biological and biochemical mechanisms of adaptation to ecological and environmental extremes in eukaryotic organisms. Lectures concurrent with BIOL 515; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 515 and BIOL 615.

BIOL 619. Environmental Entomology 3 Units
Prerequisite(s): BIOL 382, or consent of instructor.
Description: Advanced topics in insect systematics, ecology, and applied entomology.

BIOL 622. Advanced Aquatic Ecology 5 Units
Prerequisite(s): BIOL 363.
Description: Ecological processes in aquatic environments with primary emphasis on lakes and reservoirs. Lectures concurrent with BIOL 522; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 522 and BIOL 622.

BIOL 633. Advanced Physiological Plant Ecology 5 Units
Prerequisite(s): BIOL 523 and BIOL 563.
Description: A study of chemical, physical, and biological processes involved in plant ecology. Lectures concurrent with BIOL 533; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 533 and BIOL 633.

BIOL 635. Advanced Chemical Ecology 4 Units
Term Typically Offered: Spring Only
Description: This course will explore the remarkable world of chemical ecology. Where ecological outcomes between or among individuals are influenced or determined directly or indirectly by chemicals produced by individuals. A key focus will be the chemical ecology of plants. Though we will also explore chemical ecology in animals as well. Considerable ecological information is derived from chemicals produced by organisms both to other members of the same species or to a different species, and affect both natural and sexual selection. We will use an interactive discussion/seminar-style to interrogate the primary literature for current knowledge of how chemical cues influence a diverse array of ecological interactions. From the African savannas to galling insects in our own backyard. Students will have flexibility to choose their own research topics to pursue focused critical thinking and hypothesis generation. Discussions will span a range of disciplines including genetics, molecular biology, biochemistry, natural products, ecology, and evolution. Graduate students will be required to write a publication-quality review paper or meta analysis on a topic related to chemical ecology.
Note: Students may not receive credit for both BIOL 435 and BIOL 635.

BIOL 640. Advanced Intermediary Metabolism 4 Units
Prerequisite(s): BIOL 329 and CHEM 342.
Description: An advanced study of methods of metabolic pathways including synthesis of macromolecules (proteins, nucleic acids, lipids, carbohydrates), mechanisms of metabolic control and utilization of metabolic intermediates.
Note: Credit may not be earned in both BIOL 540 and BIOL 640.

BIOL 641. Advanced Medicinal Plant Biochemistry 4 Units
Prerequisite(s): BIOL 640 or consent of instructor.
Description: An advanced detailed study of biosynthesis and bioactivity of specialized plant metabolites (secondary metabolites). Topics will include aspects of general plant metabolism as well as specialized metabolism pathways (alkaloids, terpenes, and phenolics) and will include a survey of approaches as they relate to discovery of bioactive plant metabolites and a review of known plant metabolites used to treat human diseases/disorders.

BIOL 642. Advanced Gene Structure and Function 4 Units
Prerequisite(s): BIOL 330 or equivalent.
Description: Advanced topics in genetics of prokaryotes and eukaryotes, including chromosome structure and function, and gene regulation. Lectures concurrent with BIOL 542; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 542 and BIOL 642.
BIOL 643. Advanced Developmental Biology 4 Units
Description: Developmental biology is the study of how multicellular organisms process from a single cell to their adult forms. This simple statement, however, belies the incredible complexity of the process, which involves the coordinated actions and interactions of tens of thousands of genes, millions of molecular signals, and, in humans and other large mammals, tens of trillions of cells. This course highlights critical themes in animal development, including cell division; cell differentiation; and morphogenesis, and covers specific topics such as developmental anatomy; embryo development; axis formation, organ, tissue, and limb development; and cell-cell communication. The course also briefly addresses the similarities and differences in developmental strategies among animals and other multicellular organisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 644. Global Change Ecology 4 Units
Description: Human causes of global-scale changes in climate, air and water resources, and biodiversity, and impacts on people; approaches to addressing these problems that promote sustainable societies. Graduate students will attend lectures with undergraduates taking BIOL 440 but will be expected to attend weekly discussions of primary literature and course material. In addition, graduate students will be expected to write a literature review on a topic relevant to the course subject matter.
Note: Cross-listed with BIOL 440.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 648. Advanced Experimental Design and Analysis 4 Units
Prerequisite(s): BIOL 350 or BIOL 651 or permission of instructor.
Description: Move principles of sound experimental design, analysis and presentation from recognition to active vocabulary. Students completing the course can serve as statistical consultants for moderately complex statistical designs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 650. Advanced Biostatistics 4 Units
Prerequisite(s): MATH 180 or MATH 205; an introductory course in statistics; or consent of instructor.
Description: Application of statistical methods commonly used in life sciences, with emphasis on interpretation of experimental data. Lectures concurrent with BIOL 550; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 550 and BIOL 650.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 651. Advanced Biostatistics II 3 Units
Prerequisite(s): BIOL 650.
Description: Advanced biostatistics involves interpretation of experimental data using statistical software. Topics include experimental design and ANOVA, ANCOVA, MANOVA, logistic analysis, logistic regression, and log linear models.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 652. Advanced Evolutionary Medicine 4 Units
Prerequisite(s): BIOL 669.
Description: In-depth analyses at the interface of evolutionary biology and the health sciences using readings from the primary literature. Format involves lectures, discussion, and a library-based research project. Lecture concurrent with BIOL 552; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 552 and BIOL 652.
Note: BIOL 552 does not carry graduate credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 653. Advanced Chronic Disease Biology 4 Units
Prerequisite(s): BIOL 669.
Description: The course will cover the biological bases of chronic disease, with an emphasis on the mechanisms of disease causation and the evolution of these mechanisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 655. Advanced Microbial Ecology 4 Units
Prerequisite(s): BIOL 357 or BIOL 485 or consent of instructor.
Description: Interrelationships between microorganisms and their environments. Lecture concurrent with BIOL 555; more advanced material through requirement of independent study or research project for students enrolling in BIOL 655.
Note: Credit may not be earned in both BIOL 555 and BIOL 655.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 660. Advanced Ecology of Urban and Suburban Landscapes 4 Units
Description: Effects of cities and suburban sprawl on air and water chemistry, microclimate, fragmented landscapes, and responses of biotic and human communities to these conditions that degrade or promote urban resilience, adaptation and sustainability.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 662. Advanced Ecosystems Ecology 4 Units
Description: The transformations of matter and energy that link plant, animal and geochemical cycles. Lectures concurrent with BIOL 562; more advanced material through requirement of independent study or research for students enrolling in BIOL 662.
Note: Credit may not be earned in both BIOL 562 and BIOL 662.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 663. Advanced Population and Community Ecology 4 Units
Prerequisite(s): BIOL 363.
Description: Introduction to population dynamics and species interactions in aquatic and terrestrial ecosystems. Review of underlying ecological theory and its applications for conserving biodiversity. Lecture concurrent with BIOL 563; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 563 and BIOL 663.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 664. Research Methods in Ecology 3 Units
Prerequisite(s): BIOL 401 and BIOL 402.
Description: Introduction to experimental design, data collection and quantitative analyses. Field and laboratory research, statistical tools and critical evaluation data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 667. Advanced Conservation Biology 4 Units
Prerequisite(s): BIOL 363 or permission of instructor.
Description: This course provides an overview of the theory and practice of biological conservation. Topics include biodiversity, habitat loss, the effects of habitat changes on populations, and the design and establishment of reserves. Among other things, students will learn: 1) key terms and concepts related to biodiversity, 2) significant threats to biodiversity and efforts to mitigate them, and 3) practical and socioeconomic elements of conservation biology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 668. Advanced Entomology 4 Units
Prerequisite(s): BIOL 651 or an equivalent.
Description: Examination of morphology, physiology, behavior, evolution and ecology of the major groups of insects. A collection of common insect families is required. The laboratory will include observations on live and preserved animals and possible field trips. Students will learn to: 1) use terms and concepts that describe the diversity of insects, 2) compare and contrast major insect groups with respect to structure and function, and 3) collect and prepare museum-quality specimens for scientific study. A project involving the student’s interest in a particular group of insects and formal paper are required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 669. Advanced Evolution 4 Units
Prerequisite(s): BIOL 363.
Description: Offers a comprehensive overview of evolution and provides students with a review of issues that make up this critical discipline. Lecture concurrent with BIOL 569; more advanced material through requirement of independent study or research project.
Note: Credit may not be earned in both BIOL 569 and BIOL 669.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 670. Thesis Research 1-6 Units
Grading Basis: Pass/Fail
Prerequisite(s): Consent of major professor.
Description: Research on MS thesis project. Grade shall be deferred by the major professor until evaluation of the thesis by the student's committee.
Note: Graded on pass-fail basis by the examining committee.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**BiOL 691. Independent Research** 1-6 Units  
**Prerequisite(s):** Consent of instructor.  
**Description:** Independent field or laboratory research on a problem not related to thesis or dissertation.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BiOL 692. Independent Study** 1-6 Units  
**Prerequisite(s):** Consent of instructor.  
**Description:** Independent library research on a problem not related to the thesis or dissertation.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BiOL 700. Dissertation Research** 1-9 Units  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Consent of major professor.  
**Description:** Research on dissertation project. Grade shall be deferred by the major professor until evaluation of the dissertation by the student's committee.  
**Note:** Graded on a pass-fail basis by the examining committee until evaluation of the dissertation by the student's committee.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Business Analytics (MSBA)**

**MSBA 600. Master of Science in Business Analytics** 0 Units  
**Description:** Master of Science in Business Analytics - billing course  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**MSBA 605. Programming for Analytics** 1.5 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Admission to MSBA degree program.  
**Description:** This course introduces essential general programming concepts and techniques to a data analytics audience with no prior programming experience. Students will learn the aspects of programming that can support business analytics with hands on programming including accessing data, creating informative data graphics, writing functions, debugging, and organizing code. Examples are drawn from the problems and programming patterns often encountered in data analysis. It will use a common analytics programming language such as Python.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**MSBA 610. Linear Algebra** 1.5 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Admission to MSBA degree program.  
**Description:** This course introduces students to the fundamentals of linear algebra with major topics involving elimination and LU-factorization, dimension, rank, and nullspace, linear mappings, orthogonality, least squares, eigentheory, diagonalizability, and systems of linear differential equations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**MSBA 615. Introduction to Statistical Packages** 1.5 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Admission to MSBA degree program.  
**Description:** This course provides an intensive, hands-on introduction to the R programming language. The student will learn the fundamental skills required to acquire, manage, transform, manipulate, and visualize data in a computing environment that fosters reproducibility.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**MSBA 620. Data Analytics I** 3 Units  
**Term Typically Offered:** Fall Only  
**Description:** This course provides comprehensive understanding of analytical fundamentals. Students will learn business problems, the types of data required to address problems, and solution estimation. Students will learn how to setup and test the efficacy of a business strategy by setting up experiments, analyzing data, and making business decisions. The course will provide a basic understanding of some advanced analytical techniques.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**MSBA 625. Storytelling with Data** 3 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Admission to MSBA degree program.  
**Description:** This course is a data visualization and business presentations course specifically designed for professionals in the field of business analytics. Throughout the semester, you will develop your ability to organize, visualize, and present data driven messages that are professional, clear, concise, and persuasive. By the end of the course, you will enhance your ability to communicate with and about data in multiple business and professional contexts: formal individual presentations, team-based presentations, and informal one-on-one and small group interactions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**MSBA 630. Data Management** 3 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Admission to MSBA degree program.  
**Description:** This course provides an introduction to issues, principles, and technologies of modeling and using organizational data. It covers concepts and skills for developing, accessing, and administering relational databases, and formulating and executing complex queries. It also discusses the role of data management technologies and practices in an organizational setting and how such technologies and practices may impact business strategy, business processes, and organizational structure. This course has a strong hands-on component. The course will make extensive use of a leading relational database management software and structured query language (SQL).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MSBA 635. Data Analytics II 3 Units
Term Typically Offered: Spring Only
Description: This course builds on the MSBA 620 course by introducing more advanced topics in analytics. This course challenges and teaches students how to use powerful statistical tools (e.g., SmartPLS, SAS, and SPAA) to handle data that come in a variety of forms and sizes in more complex, less structured business situations. Students will participate in extensive hands-on work solving realistic business problems. This course may guide students with handling advanced regression analysis that deals with real-life models and interaction variables, time series analysis, and topics such as PLS path modeling. After taking this course, students should: (1) Approach business problems data analytically, (2) Think systematically whether and how data can help make better informed decisions; (3) Be able to interact competently with business analytical tools; and (4) Have had hands-on experience mining data. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MSBA 640. Decision Models 3 Units
Term Typically Offered: Spring Only
Description: This course trains students to turn real-world problems into mathematical and spreadsheet models and to use such models to make better managerial decisions. This is a hands-on course that focuses on modeling business problems, turning them into spreadsheet models and using tools like Solver to obtain solutions to these managerial problems. The course focuses on two classes of models, optimization and simulation. The application areas are diverse and they originate from problems in finance, marketing and operations. We cover problems such as how to optimize a supply chain and how to price products when faced with demand uncertainty. Topics covered include linear and integer programming, nonlinear programming and evolutionary solver, simulation and optimization, multi-period linear programming and Monte Carlo simulation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MSBA 645. Data Mining 3 Units
Term Typically Offered: Spring Only
Description: Data mining draws on statistics, artificial intelligence and machine learning to discover novel, interesting and actionable relationships and patterns in large and complex data sets. This course will introduce the student to the fundamentals of data mining, including methodology, data preparation, commonly used predictive models, supervised and unsupervised learning, model comparison and evaluation, and mining of unstructured data such as text. While the emphasis is on solving realistic business problems, the course will also provide a brief background for the various models and techniques introduced in the course. The course follows a learn-by-doing approach in which the students will complete assignments using real world data sets. A leading data-mining tool such as SAS Enterprise Miner will be used extensively in this course. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MSBA 650. Data Analytics III 3 Units
Term Typically Offered: Spring Only
Description: The course presents advance business analytics using R. The concepts learned in this class should help you identify opportunities in which business analytics can be used to improve performance and support important decisions. It will teach you important tools that can be used to transform data into high-impact business decisions. Lastly, it should make you alert to the ways that analytics can be used and misused within an organization. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MSBA 655. Special Topics: Marketing Analytics 1.5 Units
Term Typically Offered: Spring Only
Description: The use and analysis of data to guide marketing decisions is the focus of this course. The course will focus marketing metrics, their estimation, and use. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MSBA 685. Analytics Internship 1 Unit
Term Typically Offered: Spring Only
Description: The academic objective of the internship program in the Master of Science in Business Analytics program is to provide enrolled students with an opportunity for hands-on business experience where they can apply classroom knowledge in a real-world setting and bring the experiences gained during their internship employment into the classroom. The internship is expected to nominally last for 11 months. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MSBA 690. Analytics Capstone 3 Units
Term Typically Offered: Spring Only
Description: Each student assists (as a team member) an organization in the Louisville area to improve some aspects of its business analytics operations. The students develop project in conjunction with key business executive and work to investigate and then create recommended courses of action. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chemical Engineering (CHE)

CHE 502. Biochemical Engineering 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CHE 433 (or concurrent) and CHE 441 (or concurrent).
Description: Engineering principles related to operations involving biological processes, e.g., fermentation. Basic microbiology and biochemistry, biochemical reaction mechanisms, kinetics, rate processes, and separation techniques. Applications to foods, pharmaceuticals, and waste treatment, including system design. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHE 503. Fundamentals of Engineering Examination Review 2 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 4th-year standing.
Description: Review of topics covered on eight-hour NCEE
Fundamentals of Engineering examination. Not to be counted towards meeting the requirements for a degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 509. Environmental Processes and Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 309 or CHE 401.
Description: This course examines scientific and engineering aspects of environmental problems, stressing important issues, existing technical solutions and new solutions. The course presents engineering approaches to natural systems and describes techniques to treat/eliminate environmental problems.
Note: Cross-listed with CEE 509.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 520. Modeling and Transport Phenomena 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CHE 433 and CHE 441.
Description: An introduction to the interrelationship of momentum, heat and mass transport focusing on the development of the equations of change through the use of shell balances and their relation to earlier courses in fluids, heat and mass transfer. Some focus will be placed on this using material in the modeling of basic chemical engineering systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 532. Advanced Material Science 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 or more credit hours.
Description: Advanced study of materials science. Topics may include the electronic and atomic structure of materials; properties characterized by electron motion; properties associated with atomic motion; applications and synthesis of fundamentals to several real problems; science of thin films; or other topics selected by the instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 533. Chemical Engineering Safety and Health 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 or more credit hours.
Description: Overview of regulations and industrial practices, emphasizing chemical hazards, including: industrial hygiene, toxicology, controls and hazards analysis. Safety considerations in process design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 534. Industrial Waste Management 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 or more credit hours.
Description: A survey of regulations, generation, control and management of industrial wastes and environmental hazards: airborne, aqueous, solids and hazardous wastes. Course includes guest speakers, site visits and a term project. Design of waste treatment facilities.
Note: Cross-listed with CEE 534.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 535. Pollution Prevention 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 or more credit hours.
Description: Multimedia pollution prevention and waste minimization of hazardous and non-hazardous wastes and emissions: toxics use reduction; source reduction; reuse, reclamation and recycling; product life-cycle analysis; economic evaluation; assessments; planning and management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 550. Kinetics of Polymer Reactions 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 441 and CHEM 341.
Description: Kinetic expressions are developed for several polymer reaction mechanisms including chain, step, ionic and emulsion reactions; copolymerization; polymer reaction engineering; molecular weight distributions; structural considerations; design considerations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 551. Polymer Science 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHEM 341.
Description: Introduction to polymer science and engineering. Polymer synthesis, kinetics, structure, and properties; commercial polymers; polymer processing; equipment design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 562. Process Control Laboratory 1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 461.
Description: A laboratory course demonstrating computer simulation and the characteristics of sensing and control devices and their interactions when incorporated into process control systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHE 572. Plant Process and Project Design - CUE
Term Typically Offered: Spring Only
Prerequisite(s): CHE 471.
Description: The design and economic evaluation of a chemical plant, from process definition and flow sheet construction to a cash position diagram and measures of profitability.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 574. Techniques of Research
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 90 or more credit hours.
Description: The design, analysis, and interpretation of experimental results to obtain the desired information within reasonable constraints of time and expense. Testing predictions and making reliable decisions utilizing graphical, numerical, and statistical techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 581. Chemical Vapor Deposition and Processing
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CHE 253, CHE 441 and CHE 435 or the consent of the instructor.
Description: Theoretical and experimental concepts involved with chemical vapor deposition and processing of advanced and nanomaterials.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 593. Independent Study in Chemical Engineering
Term Typically Offered: Fall, Spring, Summer
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 594. Special Topics in Chemical Engineering
Term Typically Offered: Fall, Spring, Summer
Description: An examination of one or more specific areas of Chemical Engineering. Details announced each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 595. Master of Engineering Seminar in Chemical Engineering
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Fifth-year standing.
Description: Presentation and/or discussion of topics of current interest. This course is available to students enrolled in the professional school, division of higher studies or the Graduate School.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 602. Graduate Internship in Chemical Engineering
Grading Basis: Pass/Fail
Prerequisite(s): Student must be admitted for Graduate Study, and a sponsored member of the Graduate Intern Program.
Description: Supervised professional experience in industry at the graduate level. This course provides the structure and focus for the graduate intern field assignment to ensure that the assignment is appropriate and consistent with the intern's graduate course of study and professional development. May be repeated for credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 603. Tissue Engineering
Prerequisite(s): Graduate/Professional School standing and BIOL 329, or consent of instructor.
Description: This is an advanced elective course to satisfy the requirements for a graduate level degree in chemical engineering. This course presents an introduction to tissue engineering with an emphasis on the role of biomaterials and bioreactor design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 610. Advanced Thermodynamics
Description: A comprehensive study of physical and chemical equilibrium, with special emphasis on nonideality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 612. Nonequilibrium Thermodynamics
Description: The extension of classical thermodynamics to include systems in which transport processes are taking place. Examples from the areas of engineering, chemistry, and biological systems are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 620. Transport Phenomena I
Description: An integrated study of momentum, thermal energy, and mass transport by molecular and convective mechanisms, with and without generation, for steady-state and unsteady-state conditions, in laminar, boundary-layer, or turbulent flow. Molecular theories of transport properties.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 621. Transport Phenomena II
Prerequisite(s): CHE 620.
Description: Consideration of advanced theories and applications of transport properties as related to heat, mass, and momentum transfer.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHE 624. Introduction to Rheology 3 Units  
**Description:** Principles and applications of the rheology of polymeric materials. Kinematics of shear and extensional flows. Properties of polymer melts; experimental rheometry. Property predictions based on a variety of generalized Newtonian, linear viscoelastic, co-rotational, and co-deformational models.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 631. Homogeneous Fluid Dynamics 3 Units  
**Description:** Advanced study of momentum transfer in homogeneous fluids. Conservation of matter, momentum, and mechanical energy; ideal flow, creeping flow, laminar flow, turbulent flow, and boundary layer approximations; non-Newtonian fluids.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 632. Heterogeneous Flow 3 Units  
**Description:** Analysis of two-phase flows of gases, liquids, and solids. Single-particle and multiparticle systems, fluidized beds, bubble beds, drop beds; slug flow, annular flow.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 633. Heat Transfer 3 Units  
**Description:** Advanced problems in the fields of conductive and convective heat transfer.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 637. Advanced Stagewise Processes 3 Units  
**Description:** Methods of calculations for complex binary and multicomponent mixtures. Consideration is also given to the design of equipment for these separations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 638. Advanced Absorption 3 Units  
**Description:** An examination of absorption as a portion of general mass transfer phenomena. Theoretical and generalized relationships are applied to industrial problems of design.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 640. Chemical Kinetics and Catalysis 3 Units  
**Description:** A study of catalytic reaction mechanisms and solid catalysts with applications to cracking, reforming, hydrotreatment of fuels, synthesis gas conversion and partial oxidation reactions. Design of catalysts and catalytic reactors for specific applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 641. Advanced Reactor Design 3 Units  
**Description:** Reactor design and performance with emphasis on non-ideal behavior. Includes study of non-isothermal, non-ideal flow homogeneous and heterogeneous reactors. Introduction to heterogeneous catalysis and biochemical reactors. Extensive application of digital computers.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 650. Membrane Separations 3 Units  
**Description:** Qualitative and quantitative description of membrane separation processes including reverse osmosis and ultrafiltration; membrane synthesis; industrial applications including wastewater treatment, continuous systems, liquid membranes and gas separations. Design of membranes, membrane modules and membrane separation processes.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 653. Polymer Processing 3 Units  
**Description:** Introduction to polymer melt rheology. Simple model flows. Analysis, modeling, design and control of polymer melt processes such as extrusion, calendering, fiber spinning, film blowing, injection molding, and blow molding.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 654. Engineering Properties of Polymers 3 Units  
**Description:** The relationships between molecular structure, measurable properties, and design requirements for polymeric materials. Molecular topology; morphology; rheology; mechanical, thermal, electrical, optical, and chemical properties; design and economic considerations in engineering applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 660. Optimization in Control Systems 3 Units  
**Description:** Theory of optimization will be studied and applied to the solution of control problems. Both steady-state and dynamic optimization topics will be considered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 661. Control of Dynamic Processes 3 Units  
**Description:** A combined laboratory and seminar course involving advanced process-control experiments and simulation procedures with the necessary concomitant discussion.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 662. Advanced Process Control 3 Units  
**Description:** Advanced control system design and implementation; feedforward, cascade, adaptive, multivariable, and constraint control systems; computer process control.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHE 663. Distillation Dynamics and Control 3 Units
Description: Multicomponent calculations and design of distillation units. Automatic control of these units, sensitivity analysis in control strategy, and dynamic mathematical modeling and simulation of the columns and accessories, including design considerations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 671. Bioseparation 3 Units
Prerequisite(s): ENGR 205 or Graduate/Professional School standing or consent of instructor.
Description: This course introduces the basic concept, theory, and applications of bioseparations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 686. Chemical Engineering Analysis 3 Units
Description: Mathematical modeling of chemical engineering phenomena leading to total and partial differential equations requiring solution by use of series, transforms, and digital computer techniques. Applications to design and analysis of chemical engineering processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 690. Master of Science Thesis in Chemical Engineering 1-6 Units
Description: Experimental and/or theoretical research to be presented in thesis for degree requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 693. Advanced Research in Chemical Engineering 1-15 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 694. Special Topics in Chemical Engineering 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 695. Chemical Engineering Seminar 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Graduate standing.
Description: Presentation and/or discussion of topics of current interest.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 696. Independent Study in Chemical Engineering 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 697. Master of Engineering Thesis in Chemical Engineering 1-6 Units
Prerequisite(s): Graduate/Professional School standing.
Description: A candidate for the Master of Engineering degree, specializing in the field of Chemical Engineering, is required to perform a study, design, or investigation under the direction of a faculty member. A written dissertation is required to be presented and defended orally and submitted to the faculty for approval. This course must be repeated for a minimum total of 6 semester hour credits to satisfy minimum M.Eng. requirements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 698. Engineering Project Fundamentals I 3 Units
Prerequisite(s): Graduate/Professional School standing.
Description: This is the first of a two course sequence to satisfy the project requirement for the Master of Engineering degree (non-thesis option). This course sequence presents the fundamentals of research proposal writing including literature and background investigation, feasibility evaluation and written and oral communication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHE 699. Engineering Project Fundamentals II 3 Units
Prerequisite(s): Graduate/Professional School standing and CHE 698.
Description: This is the second of a two course sequence to satisfy the project requirement for the Master of Engineering degree (non thesis option). This course sequence presents the fundamentals of business plan development including literature and background investigation, feasibility evaluation and written and oral communication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chemistry (CHEM)

CHEM 503. Special Topics in Chemistry 1-3 Units
Prerequisite(s): As required by topic.
Description: An examination of one or more specified areas of Chemistry. Details announced each semester.
Note: Not applicable toward graduate degree in chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 550. Group Theory and its Chemical Applications 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): One year of physical chemistry.
Description: Elementary group theory; the use of group theory to treat symmetry; application to atomic structure, molecular structure, spectroscopy, and reaction mechanisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 557. Bio-Organic Phenomena 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): One year of organic chemistry.
Description: Special topics in the biological chemistry area: e.g., chemical carcinogenesis; diet and cancer; food chemistry and polypeptides; proteins; carbohydrates; enzymes; hormone chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 591. Chemistry for Teachers I 3 Units
Prerequisite(s): For graduate education majors; must have experience in teaching chemistry principles in elementary, middle, or secondary schools.
Description: Teaching pre-college chemistry with emphasis on curriculum content, laboratory procedures, and process skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 620. Optical Spectrochemical Methods of Analysis 3 Units
Prerequisite(s): CHEM 527.
Description: Principles, instrumentation, and applications of atomic and molecular spectroscopic techniques used in the IR, VIS, and UV spectral regions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 621. Electroanalytical Chemistry 3 Units
Prerequisite(s): CHEM 527.
Description: Principles of modern voltammetric and potentiometric methods of chemical analysis including fundamental theory, instrumentation, and applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 622. Analytical Separations 3 Units
Prerequisite(s): CHEM 527.
Description: Survey of major instrumental separation methods in chemistry and biochemistry with an emphasis on modern chromatographic techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 625. Advanced Analytical Chemistry 3 Units
Prerequisite(s): CHEM 527.
Description: A survey of theoretical and practical aspects of modern methods of analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 626. Special Topics in Analytical Chemistry 1-3 Units
Prerequisite(s): CHEM 528 and CHEM 529, or consent of instructor.
Description: Recent developments in selected areas of Analytical Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 628. Special Topics in Synthesis and Analysis 1 Unit
Prerequisite(s): Completion of, or coregistration in, CHEM 528, or consent of instructor.
Description: Current topics in high resolution NMR, mass spectrometry and organic synthesis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 630. Advanced Topics in Chemical Analysis 1 Unit
Prerequisite(s): Completion of, or co-registration in, CHEM 529, or consent of instructor.
Description: A discovery-based approach to the solution of advanced problems in chemical analysis with an emphasis on separations, electrochemistry and X-ray crystallography.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 632. Chemical Education for Secondary Teachers 4 Units
Prerequisite(s): BS, BA, or minor in Chemistry, or consent of instructor.
Description: In-depth examination of chemistry content for secondary teachers as aligned with national and state standards. Inquiry-based laboratory and diverse assessment of core concepts will be developed.
Note: Does not count toward an advanced degree in Chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 645. Advanced Biochemistry I 4 Units
Prerequisite(s): CHEM 342.
Description: Chemistry of amino acids, peptides, proteins, nucleotides and nucleic acids; methods of analysis and laboratory synthesis; enzyme properties, kinetics, ligand binding.
Note: Lectures concurrent with CHEM 545; one added lecture hour each week covers advanced topics.
Note: Credit may not be earned in both CHEM 545 and CHEM 645.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 647. Advanced Biochemistry II 4 Units
Description: Cellular metabolism of carbohydrates, lipids, amino acids and nucleotides; biomembrane phenomena; RNA, DNA and protein synthesis. Lectures concurrent with CHEM 547; one added lecture hour each week covers advanced topics.
Note: Credit may not be earned in both CHEM 547 and CHEM 647.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Prerequisite(s): CHEM 647, BIOG 645, or consent of instructor.
Description: Integration of global metabolic functions with protein and gene-level regulations. Analytical approaches to enable such integration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 651. Independent Study 1-3 Units
Description: Credit according to achievement; limited to 3 hours per semester
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 652. Independent Study 1-3 Units
Description: Credit according to achievement; limited to 3 hours per semester
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 653. Main Group Chemistry 3 Units
Prerequisite(s): CHEM 515.
Description: Survey of the descriptive chemistry of the main group elements and topics of current interest in main group chemistry such as bonding theories, reaction mechanisms, electronic materials, and catalytic materials.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 654. Advanced Coordination Chemistry 3 Units
Prerequisite(s): CHEM 515.
Description: Survey of structure, bonding, and reactivity of the transition metal complexes. Covers topics such as organometallic and bioinorganic chemistry, group theory, and magnetism.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 655. Special Topics in Inorganic Chemistry 1-3 Units
Prerequisite(s): CHEM 515.
Description: Current problems in inorganic chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 656. Special Topics in Inorganic Chemistry 1-3 Units
Prerequisite(s): CHEM 515.
Description: Current problems in inorganic chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 659. Solid State Chemistry 3 Units
Prerequisite(s): CHEM 515 or equivalent course in organic chemistry.
Description: Course content will include the synthesis methods, characterization and properties of solid-state materials. Various techniques of preparation of solid-state materials as well as advantages and disadvantages of each method are discussed. The main properties of interest are structural properties, magnetism and charge transport in solid state. Basic principles as well as methods of investigation and characterization of these properties will be discussed in this course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 660. Advanced Physical Chemistry 3 Units
Prerequisite(s): One year of physical chemistry, one semester of atomic and molecular physics.
Description: Introduction to quantum chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 661. Chemical Thermodynamics 3 Units
Prerequisite(s): One year of physical chemistry.
Description: Advanced discussion of the principles of thermodynamics including an introduction to statistical thermodynamics; applications to chemical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 665. Special Topics in Physical Chemistry 1-3 Units
Prerequisite(s): CHEM 515.
Description: One year each of organic and physical chemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 666. Special Topics in Physical Chemistry 1-3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 667. Reaction Kinetics 3 Units
Prerequisite(s): One year of physical chemistry.
Description: Theory of the rate of chemical reactions; methods of studying reaction rates; reaction energetics; reactions in solution; chain reactions and inference of mechanism from rate studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 668. Electrochemistry 3 Units
Prerequisite(s): Consent of instructor.
Description: A thermodynamic and kinetic study of electrochemical phenomena, including electrical conductivity, electrophoresis, electrode potentials, and electrode processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 670. Chemistry of Heterocyclic Compounds and Alkaloids 3 Units
Prerequisite(s): One year each of organic and physical chemistry.
Description: Structures, reactivities, activities, and synthesis of heterocyclic systems including natural products and their uses in medicine.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 671. Advanced Polymer Chemistry 3 Units
Prerequisite(s): One year each of organic and physical chemistry.
Description: Polymer characterization, physical properties and structure. Conformational changes, elasticity, relaxation phenomena, size and chain distributions; application of microscopy, spectroscopy, magnetic resonance, and diffraction to polymers; liquid crystals.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 672. Quantum Chemistry  
**Prerequisite(s):** CHEM 561 or CHEM 660.  
**Description:** Principles of quantum theory with applications to chemistry; and advanced treatment of atomic and molecular structure including Slater-Condon methods for atoms and LCAO-MO-SCF methods for molecules; introduction to ab initio methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 675. Special Topics in Organic Chemistry  
**Prerequisite(s):** One year of organic chemistry.  
**Description:** Current problems in organic chemistry; organometallic chemistry; free radical reactions; carbohydrates and nucleosides; peptides.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 677. Mechanisms and Theory in Organic Chemistry  
**Prerequisite(s):** Two semesters of undergraduate organic chemistry.  
**Description:** This course focuses on the mechanism and theory of classical and contemporary organic reactions, including acid and base catalysis, pericyclic reactions, metal-mediated reactions and radical and photochemical reactions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 678. Advanced Organic Chemistry: General Survey  
**Prerequisite(s):** One year each of organic and physical chemistry.  
**Description:** First semester (CHEM 678): an introduction to advanced physical organic chemistry, linear free energy relationship, kinetics, isotope effects and spectroscopic techniques as used in the interpretation of reaction mechanisms. Second semester (CHEM 679): an introduction to advanced organic chemistry emphasizing reactions and synthesis, and including spectral applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 679. Advanced Organic Synthesis  
**Prerequisite(s):** one year each of organic and physical chemistry.  
**Description:** An introduction to advanced organic chemistry emphasizing modern synthesis reagents, reactions and their mechanisms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 681. Modern Biochemistry I  
**Prerequisite(s):** One year each of organic and physical chemistry or consent of instructor.  
**Description:** Chemistry and physical properties of proteins, other biopolymers; enzymatic reaction mechanisms and kinetics; bioenergetics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 682. Modern Biochemistry II  
**Prerequisite(s):** CHEM 681 or consent of instructor.  
**Description:** Carbohydrate, lipid, protein, and nucleic acid metabolism; endocrine control of metabolism and physiological activities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 684. Biophysical Chemistry  
**Prerequisite(s):** CHEM 462 (or equivalent) and CHEM 545/645, or consent of instructor.  
**Description:** Basis theory and practical applications of modern biophysical methods; spectroscopy, hydrodynamics, thermodynamics, kinetics, and computational methods applied to protein and nucleic acid systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 685. Special Topics in Biochemistry  
**Prerequisite(s):** CHEM 561 or CHEM 660.  
**Description:** Recent developments in selected areas of Biochemistry.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 686. Special Topics in Organic Chemistry  
**Prerequisite(s):** CHEM 561 or CHEM 660.  
**Description:** One year each of organic and physical chemistry.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 687. Molecular Spectroscopy  
**Prerequisite(s):** CHEM 561 or CHEM 660.  
**Description:** Molecular structure and interactions as determined by spectroscopic investigation. Rotational, vibrational and electronic spectroscopy as determined by ultraviolet, visible, infrared, microwave and radio frequency methods. Fundamental theory and experimental methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 688. X-Ray Crystallography and Its Application to Molecular Structure  
**Prerequisite(s):** CHEM 561 or CHEM 660.  
**Description:** Crystal structure analysis. Topics include: symmetry, space groups, data collection, structure solution and refinement, structural analysis and presentation of scientific results.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 691. Research  
**Prerequisite(s):** 30 semester hours of undergraduate chemistry.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CHEM 692. Research  
**Prerequisite(s):** 30 semester hours of undergraduate chemistry.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CHEM 695. Seminar 1-3 Units
Grading Basis: Pass/Fail
Description: Required of all graduate students during residency. Students present one oral and one research seminar by the end of the 3rd semester; participate/attend in department seminar.
Note: Maximum credit allowed is 3 semester hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Chinese (CHNS)

CHNS 551. Special Topics 3 Units
Prerequisite(s): CHNS 456 (or equivalent), or permission of the instructor.
Description: The course aims at bridging the gap between students advanced skills of spoken Chinese and their understanding of the complexity of advanced written Chinese.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Civil and Environmental Engineering (CEE)

CEE 503. Fundamentals of Engineering Exam Review 2 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 421, CEE 422, and CEE 452.
Description: Review of topics covered on eight-hour NCEEES Fundamentals of Engineering examination. Not to be counted towards meeting the requirements for a degree.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 520. Design of Structural Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 450.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 522. Fundamentals of Prestressed Concrete 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 322 and CEE 421.
Description: Introduction to pre-tensioned and post-tensioned prestressed concrete. Design of precast concrete slabs, buildings, and bridges in accordance with ACI specifications and the Prestressed Concrete Institute (PCI) recommended practices. Application of computer programs for member analysis and design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 523. Timber Design 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 254 or consent of instructor.
Description: Concepts of Structural Timber design will be taught. The properties of wood materials will be reviewed and the procedures for the design of typical timber components will be presented. In addition to course assignments, and tests, required of all students, students taking this course for graduate credit will be required to complete a group design of a simple building.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 530. Construction Materials 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): CEE 254 and CEE 255.
Description: Properties of construction materials such as cement, concrete, asphalt, and structural elastomers. Design of Portland cement concrete and asphaltic concrete mixes.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 532. Experimental Stress Analysis 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 530.
Description: Fundamentals of experimental stress analysis, brittle coating, photoelastic coating, and electrical strain gage techniques, strain measurements under static and dynamic loading.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 552. Earth Pressures and Retaining Structures 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 450.
Description: Earth pressure calculation: theory and practice. Design techniques for retaining walls, reinforced earth and soil nailing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 560. Traffic Engineering 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CEE 460.
Description: Examines characteristics of the vehicle, the driver, and the traffic stream. Highway and intersection capacity, theory of traffic flow, parking, traffic safety.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 562. Geometric Design of Highways 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): CEE 460.
Description: The concepts of geometric design for rural and urban highways, utilizing proprietary design software are introduced and applied.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CEE 563. GPS Theory and Application  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 460.  
Description: This course is designed to give the student an overview of the use of Global Positioning Systems in surveying and engineering applications. Elements of coordinate systems, map projections, GPS principles of operation, mapping, boundary, and construction surveys will be covered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 565. GIS Applications to Transportation  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 460.  
Description: Introduces an overview and application of current methods of implementing GIS solutions to highway data analysis and planning studies.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 570. Applied Hydraulics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 572.  
Description: Application of basic principles of hydraulic engineering to analysis of flow in floodways, through bridge openings, culverts, and spillways. Analysis of stable channel design is also considered. Commonly used computer programs are utilized to design structures in floodways.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 571. Applied Hydrology  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 572.  
Description: Introduction to hydrologic systems; modeling runoff from watersheds using lumped and distributed methods; stormwater management and design; hydrologic and hydraulic routing including kinematic wave routing; computer rainfall-runoff simulation models. A hydrologic design project will be assigned to all students; special assignments dealing with hydrologic processes will be assigned to MS degree students.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 572. Open Channel Hydraulics  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 370.  
Description: Application of basic principles of hydraulics to open channel flow. Theory and analysis of critical, uniform, and gradually varied flow and computer analysis. Select topics in rapidly varied and unsteady flow. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 573. Groundwater Hydrology  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): CEE 450 and CEE 470.  
Description: Fundamental concepts of fluid flow and soil properties; theory of groundwater movement; mechanics of well flow; groundwater contaminant transport.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 590. Current Topics in Civil Engineering  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Consent of instructor.  
Description: An examination of one or more topics in Civil Engineering. Details announced each semester.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 604. Interaction of Soils and Structures  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): CEE 421, CEE 422, and CEE 452.  
Description: Response of foundation materials to applied static and dynamic loads. Foundation design procedures based upon consideration of soil-structure interaction.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 620. Advanced Mechanics of Solids  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): By permission of Department Chair.  
Description: Analysis of stress and strain. Topics include theories of failure, unsymmetric bending, curved beams, shear center, torsion, beams on elastic foundations, beams with combined axial and lateral loads, thick-wall cylinders, rotating disc, introduction to elastic stability. Students from other departments will need to get permission from CEE department chair.  
Note: Cross-listed with ME 620.  
Note: This class is for CEE students.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 621. Finite Element Analysis for Structural Engineers  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Introduction to the finite element method (FEM) and its application to structural engineering. Topics include displacement and variational base one-, two-, and three-dimensional element formulation, introductory elasticity, isoparametric elements, interpolation methods, numeric integration, geometric and material nonlinearity. Emphasis on FEM program development.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CEE 623. Advanced Structural Engineering  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Design of earthquake resistant steel, concrete, and masonry structures. Introduction to time history, modal analysis and pushover analysis. Model code seismic design provisions. Ductility concepts.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CEE 625. Structural Dynamics 3 Units
Prerequisite(s): CEE 322.
Description: Dynamic analysis of structural systems including dynamic response by modal superposition, step integration, response spectrum frequency analysis. Computer applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 626. Masonry Design 3 Units
Prerequisite(s): CEE 421.
Description: Concepts of masonry design will be taught. The properties of masonry materials will be reviewed and the procedures for the design of typical masonry components will be presented.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 627. Non-Destructive Testing 3 Units
Prerequisite(s): Graduate/Professional standing.
Description: Introduce different non-destructive testing methods for quality evaluation of concrete. Penetration resistance methods, resonant frequency methods, ultra-sonic pulse velocity, maturity technique will be covered. Ground penetrating radar.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 650. Measurement of Soil Properties 3 Units
Prerequisite(s): CEE 450.
Description: Laboratory testing of soil mechanical properties; index testing; testing for permeability, compressibility, and shear strength.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 652. Advanced Earth Pressure and Retaining Structures 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 653. Design of Earth Structures 3 Units
Prerequisite(s): CEE 450.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 654. Rock Mechanics 3 Units
Prerequisite(s): CEE 450.
Description: Physical properties of intact rock; mechanical properties of rock masses, emphasis on practical applications. Rock blasting. Tunneling.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 660. Transportation Planning and Urban Development 3 Units
Prerequisite(s): CEE 460.
Description: Focuses on the principles of transportation planning in the urban environment, including land use planning, with emphasis on the orderly development of the transportation system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 661. Environmental Analysis of Transportation Systems 3 Units
Description: An examination of the various impacts that transportation systems and projects may have on the natural and human environment. A detailed review and application of transportation noise analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 662. Airport Planning & Design 3 Units
Prerequisite(s): CEE 460.
Description: The principles of location, planning, design, and evaluation of airports are examined from the engineering perspective. In addition, laws and regulations concerning airports and the aviation system are thoroughly studied.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 663. Advanced Traffic Operations 3 Units
Description: A continuation of CEE 560, with an emphasis on mathematical and computer techniques to solve traffic problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 664. Fundamentals of Intelligent Transportation Systems 3 Units
Description: Examines the elements of traffic flow theory, incident/emergency management, dynamic route guidance, in-vehicle systems, and traffic signal systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 665. Pavement Design 3 Units
Prerequisite(s): CEE 450 and CEE 460.
Description: Design of flexible and rigid pavements, base courses, and subgrades. Effects of loading on pavement life. Investigation of pavement distress and rehabilitation. Introduction to pavement management systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 670. Advanced Hydraulics 3 Units
Prerequisite(s): CEE 370.
Description: Dimensional analysis; integral form of the equations of motion; shear stress distribution; turbulence and boundary layer theory; concepts in particle drag and settling.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CEE 671. Stochastic Processes in Hydrology 3 Units
Description: Basic concepts and classification of stochastic processes with emphasis on hydrologic systems; analysis of hydrologic time series; models for stationary hydrologic stochastic processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 672. Statistical Methods in Water Resources 3 Units
Prerequisite(s): IE 360.
Description: Applications of advanced concepts of probability and statistics in hydrology and water resources including frequency analysis and regionalization; parameter estimation; analysis of variance and multiple regression techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 673. Advanced Hydrology 3 Units
Prerequisite(s): CEE 470 and IE 360.
Description: Advanced concepts for studying hydrologic processes; theory of linear hydrologic systems; conceptual models for modeling watershed rainfall-runoff response including geomorphological approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 674. Water Resources Systems 3 Units
Description: Application of systems analysis techniques in the planning and design of water resources projects; mathematical optimization; simulation and risk-based decision-making.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 675. Surface Water Quality Modeling 3 Units
Prerequisite(s): Consent of instructor.
Description: Modeling, design and control of water quality in river, lake, and estuary systems; dissolved oxygen and toxic substance models; and lake eutrophication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 676. Sediment Transport and River Mechanics 3 Units
Prerequisite(s): CEE 370.
Description: Sediment transport theory; overland erosion; alluvial streams; analysis, prediction, and control of river characteristics; local scour at river structures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 677. Groundwater Modeling 3 Units
Description: Mathematical and numerical modeling of groundwater and pollution transport.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 680. Civil Engineering Capstone Design 3 Units
Prerequisite(s): Restricted to CEE Master of Engineering students (SP).
Description: A capstone Civil & Environmental Engineering course to include elements of geotechnical, structural, transportation, and water resources engineering in a comprehensive design project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 681. Green Engineering & Sustainable Design 3 Units
Description: Understand the origins and applicability of sustainable design and green engineering. Ultimately, be able to apply fundamental engineering concepts to these practices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 690. Master of Science Thesis in Civil Engineering 1-6 Units
Prerequisite(s): Graduate/professional school standing.
Description: Experimental and/or theoretical research to be presented in thesis for degree requirement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 693. Independent Study in Civil Engineering 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 694. Special Topics in Civil Engineering 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 697. Master of Engineering Thesis in Civil Engineering 1-6 Units
Prerequisite(s): Graduate/professional school standing.
Description: A candidate for the Master of Engineering degree, specializing in the field of civil engineering, is required to perform a study, design, or investigation under the direction of a faculty member. A written thesis is required to be presented and defended orally and submitted to the faculty for approval.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 698. Civil Engineering PhD Seminar 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Permission of the chair.
Description: Current literature in the field of civil engineering; extensive student presentations on research projects with interaction and feedback from students and faculty; guest speakers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CEE 699. Civil Engineering PhD Research 1-18 Units
Prerequisite(s): Permission of dissertation director.
Description: Original research activity in an appropriate civil engineering discipline, under the direction of a Civil Engineering graduate faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
COMM 513. History of Communication - WR
Description: Examination of the history of communication both as a set of practices and as a subject of academic inquiry.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

COMM 600. Practicum
Prerequisite(s): Consent of instructor.
Description: Practical work in speech.
Note: Pass/Fail grading.

COMM 600. Computer-Mediated Communication - WR
Term Typically Offered: Occasionally Offered
Description: Conceptual analysis and practical use of computer networks with an emphasis on the social and cultural dimensions of this type of human communication.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 601</td>
<td>Professional Seminar in Communication</td>
<td>1</td>
<td>Graduate standing</td>
<td>Overview of the communication discipline and introduction to the academic study of communication. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 603</td>
<td>Communication Pedagogy</td>
<td>3</td>
<td></td>
<td>An introduction to teaching college-level in Communication. Applies various theories of communication to nature of interactions between students and teachers. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 605</td>
<td>Communication Theory &amp; Practice</td>
<td>3</td>
<td>Graduate standing</td>
<td>Seminar studies theories and empirical research in persuasion, social interaction, and group decision-making and offers applied problems that require public presentations by seminar participants. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 610</td>
<td>Problems of Public Discourse</td>
<td>3</td>
<td>Consent of instructor</td>
<td>Surveys the chief theories and disputes about public discourse, public knowledge, and decision-making. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 616</td>
<td>Qualitative Communication Research</td>
<td>3</td>
<td>Graduate standing</td>
<td>Seminar studies theories and empirical research in qualitative research in the field of communication. Methods include interviewing, participant observation, unobstructive observation, historical/archival methods, narrative and ethnography. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 617</td>
<td>Quantitative Methods in Communication</td>
<td>3</td>
<td></td>
<td>Instruction in procedures used to systematically and mathematically measure difference between groups and relationships between variables among various communication populations. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 620</td>
<td>Organizational Communication</td>
<td>3</td>
<td>Consent of instructor</td>
<td>Theoretical and applied studies of communication within organizations and between organizations and their publics. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 625</td>
<td>Personality and Communication</td>
<td>3</td>
<td>Graduate standing</td>
<td>Exploration of individual differences in communication processes, such as argumentativeness, shyness, persuasiveness, and leadership. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 630</td>
<td>Communication and Multiculturalism</td>
<td>3</td>
<td>Consent of instructor</td>
<td>Explores the influence of race, nationality, and/or gender on the communication practices of individuals and their institutions. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 640</td>
<td>Communication in Social Service</td>
<td>3</td>
<td>Consent of instructor</td>
<td>Studies public communication campaigns, e.g., health information and policy campaigns. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 650</td>
<td>Corporate Communication</td>
<td>3</td>
<td>Graduate standing</td>
<td>Study of the nature, strengths, and weaknesses of empirical research in organizational communication and application of these findings to analysis, diagnosis, and remedy or communication problems in specific organizations. Focus is primarily on case studies and in-community &quot;practicum&quot; consulting project. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 651</td>
<td>Conflict Management</td>
<td>3</td>
<td></td>
<td>Uses role playing and case studies in community organizations to assist students in developing the skills needed for managing conflict. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 653</td>
<td>Integrated Marketing Communication Campaigns</td>
<td>3</td>
<td></td>
<td>Study of integrated advertising, public relations, and sales promotions. Course culminates with students preparing integrated marketing plans for local clients. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>COMM 654</td>
<td>Public Relations and Crisis Management</td>
<td>3</td>
<td></td>
<td>Examines problems of planning and implementing public relations strategies for crisis management. The organizations studied include corporations, agencies, educational and government institutions, and non-profits. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
</tbody>
</table>
COMM 660. Selected Topics in Mass Media 3 Units
Prerequisite(s): Graduate standing.
Description: Examination of topics specific to the study of mass media not covered in other courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 670. Directed Readings in Communication 3 Units
Prerequisite(s): Graduate standing.
Description: Faculty supervised readings on special topics in communication theory, research and practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 675. Risk Communication 3 Units
Prerequisite(s): Graduate standing.
Description: Examines the study of risk communication across various contexts (e.g., health, environmental). Focuses on the role of messages in shaping risk perception, evaluation, and behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 690. Special Topics 3 Units
Description: Examination of topics not covered in regularly-scheduled courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

COMM 698. Thesis 1-6 Units
Prerequisite(s): Graduate standing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Communicative Disorders (CMDS)

CMDS 563. Clinical Phonetics 3 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: The International Phonetic Alphabet and other symbol systems are utilized in transcription of speech sounds. A description of speech sounds in terms of acoustics and physiologic dimensions. Special emphasis on speech disorders and dialects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 564. Normal Speech and Language Development 4 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: CMDS 564 reviews normal development of language and speech across the lifespan including syntax, semantics, morphology, pragmatics, and phonology. An overview of dialectical, cultural, and bilingual aspects are discussed as well as basic language sampling and analysis procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 567. Functional Neuroanatomy 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Restricted to graduate students only.
Description: An overview of general neuroanatomy and neuroanatomical principles applied to communication and communicative disorders including hearing, speech, language, cognition, swallowing, and emotion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 569. Special Topics 3 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: Examination of topics not covered in regularly-scheduled courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 570. Clinical Observation in Speech Pathology and Audiology 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to graduate students only.
Description: Observations in speech pathology and audiology. Additional observations may be assigned to introduce students to the variety of practicum opportunities available in the program. Pass/fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 571. Functional Neuroanatomy 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Restricted to graduate students only.
Description: An overview of general neuroanatomy and neuroanatomical principles applied to communication and communicative disorders including hearing, speech, language, cognition, swallowing, and emotion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 572. Anatomy and Physiology for Communication Sciences 4 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: The International Phonetic Alphabet and other symbol systems are utilized in transcription of speech sounds. A description of speech sounds in terms of acoustics and physiologic dimensions. Special emphasis on speech disorders and dialects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 560. Research Methods in Speech-Language Pathology 2 Units
Prerequisite(s): Must be at least a Junior or Senior undergraduate student to register.
Description: This course will introduce speech-language pathology graduate students to the various aspects of research including: where to find journal articles, how to read journal articles, basic statistical approaches, and research design. The course will include guest speakers from clinical and basic sciences and expose students to the plethora of research careers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 602. Speech Sound Disorders 3 Units
Prerequisite(s): CMDS 563.
Description: This course covers the study of vowel and consonant characteristics; sequence of development of phonology and articulation; and procedures for diagnosing and treating phonological and articulation disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 660. CMDS Independent Study 1-5 Units
Prerequisite(s): Permission of instructor.
Description: Individualized course with topics to be determined by the instructor. May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
<th>Description</th>
<th>Term Typically Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMDS 610</td>
<td>Topics in Audiology and Aural Rehabilitation</td>
<td>1</td>
<td></td>
<td></td>
<td>Study of clinical aspects of conventional audiology, patient management, and aural rehabilitation therapy.</td>
<td></td>
</tr>
<tr>
<td>CMDS 611</td>
<td>Practicum in Speech Pathology</td>
<td>1-5</td>
<td>CMDS 563.</td>
<td>CMDS 564.</td>
<td>Diagnostic and therapeutic contact with individuals who exhibit communication disorders. Practicum obligations include treatment planning, report writing and patient/parent counseling.</td>
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</tr>
<tr>
<td>CMDS 612</td>
<td>Early Childhood Language Assessment &amp; Intervention</td>
<td>3</td>
<td>CMDS 564.</td>
<td></td>
<td>This course covers early childhood language assessment and intervention - including phonology - for infants, toddlers and preschool-aged children. Emphasis is placed on typical development as well as disordered populations.</td>
<td></td>
</tr>
<tr>
<td>CMDS 618</td>
<td>Counseling and Interviewing</td>
<td>3</td>
<td></td>
<td></td>
<td>An online course that reviews the speech-language pathologists’ roles and responsibilities related to the techniques associated with counseling patients and their families. The course will review contemporary theories of counseling and will provide strategies for interviewing and reporting results.</td>
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</tr>
<tr>
<td>CMDS 620</td>
<td>Motor Speech Disorders</td>
<td>3</td>
<td>CMDS 572.</td>
<td></td>
<td>Description: Motor speech disorders are speech disorders resulting from neurological damage that affects the motor control of speech muscles or motor programming/planning of speech movements. The most common motor speech disorders are dysarthria and acquired apraxia of speech. This course will cover diagnosis and treatment.</td>
<td></td>
</tr>
<tr>
<td>CMDS 630</td>
<td>Aural Rehabilitation for the Speech-Language Pathologist</td>
<td>3</td>
<td>AUDI 605 and CMDS 572.</td>
<td></td>
<td>This course provides an overview of the various hearing impaired habilitative/rehabilitative programs/techniques for pediatric through geriatric populations. Topics may include: speech/language development for children with impaired hearing; physiology and psychosocial impact of hearing loss in older adulthood; cochlear implants; educational management for children with impaired hearing; an overview of hearing aids; and assistive listening devices.</td>
<td></td>
</tr>
<tr>
<td>CMDS 651</td>
<td>Audiology II</td>
<td>4</td>
<td>CMDS 572 and CMDS 604.</td>
<td></td>
<td>Study of diagnostic techniques in the differential diagnosis of etiologies and pathologies related to hearing loss in both children and adults.</td>
<td></td>
</tr>
<tr>
<td>CMDS 652</td>
<td>School-Age Language Assessment and Intervention</td>
<td>3</td>
<td>CMDS 564.</td>
<td></td>
<td>This course covers school-age language assessment and intervention - including phonology - for school-age children and adolescents. Emphasis is placed on typical development as well as disordered populations and emphasizes phonological and pragmatic aspects of language along with semantics, morphology and syntax.</td>
<td></td>
</tr>
<tr>
<td>CMDS 653</td>
<td>Hearing Conservation</td>
<td>2</td>
<td>CMDS 604.</td>
<td></td>
<td>Methods: Methods of detection, prevention and monitoring of hearing in special populations, particularly those exposed in the industrial work place. Topics include federal regulations and the effect of noise on humans.</td>
<td></td>
</tr>
<tr>
<td>CMDS 654</td>
<td>Evoked Potentials in Audiology</td>
<td>2</td>
<td>CMDS 604.</td>
<td></td>
<td>Principles of electrophysiology as applied to assessment of the auditory system. Includes brainstem auditory evoked potentials, electrocochleography, middle latency potentials, long latency potentials, hearing assessment, retro-cochlear evaluation and intro-operative monitoring.</td>
<td></td>
</tr>
<tr>
<td>CMDS 655</td>
<td>Audiology III</td>
<td>3</td>
<td></td>
<td></td>
<td>For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td></td>
</tr>
<tr>
<td>CMDS 658</td>
<td>Interprofessional Education and Practice</td>
<td>1</td>
<td></td>
<td></td>
<td>This course reviews the speech-language pathologist’ roles/responsibilities when collaborating with other professionals in medical and/or educational settings. The course emphasizes learning about, from, and with other professionals in order to deliver the highest quality of care across settings.</td>
<td>Fall Only</td>
</tr>
</tbody>
</table>
CMDS 663. Voice Disorders 3 Units
Prerequisite(s): CMDS 572.
Description: Study of abnormalities of voice production including dysphonia, psychogenic disturbance, and resonance imbalance. Incorporates laboratory demonstrations and exercises to develop skills using the following technologies: video stroboscopy, videofluoroscopy for VPI, manometry, the Visi-pitch, etc.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 665. Fluency Disorders 3 Units
Description: Examines fluency disorders of children and adults. Reviews the literature on etiology and theories of dysfluency. Assessment procedures and therapeutic management are discussed. Includes a review of current technological applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 667. Aphasia 3 Units
Prerequisite(s): CMDS 620.
Description: Historical review of the neurological basis of language processing. Emphasis on the speech and language disorders, diagnosis and remediation of patients experiencing right and left cerebral vascular accidents.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 668. Professional Issues in Audiology and Speech Pathology 3 Units
Description: Survey of social, political, business and professional issues in health care delivery related to communicative disorders. Other topics include: curriculum vitae preparation, professional interviews, professional liabilities, contracts, and funding sources, quality assurance mechanism, etc. Pass-fail grading only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 669. Cognitive-Communication Disorders 3 Units
Prerequisite(s): CMDS 620 and CMDS 572.
Description: This course focuses on the cognitive-communication disorders that may result from dementia, neurological disorders, metabolic and drug-induced delirium and traumatic brain injury.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 670. Advanced Concepts in Amplification 3 Units
Prerequisite(s): CMDS 630.
Description: Trends and developments in amplification technology and applications. Implantable devices (including cochlear implants), automatic signal processing, digital amplification, programmable and multi-channel instruments, vibro-tactile aids, etc.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 672. Assessment of the Vestibular System and Its Disorders 2 Units
Prerequisite(s): CMDS 651.
Description: Review of the interactive balance mechanisms: vestibular, oculomotor and proprioceptive systems. Technologies and procedures for assessing and quantifying disorders of equilibrium.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 690. Dysphagia 3 Units
Prerequisite(s): CMDS 572.
Description: Evaluation and treatment of pediatric and adult patients with swallowing disorders. Specific emphasis on bedside dysphagia evaluations, modified barium swallow procedures, FEES, assistive devices, treatment techniques, and diet modifications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 694. Pediatric Feeding and Swallowing 3 Units
Prerequisite(s): CMDS 690.
Description: This course will focus on pediatric feeding and swallowing disorders from a whole body perspective. The course will cover typical feeding development, characteristics and ramifications of atypical feeding development, underlying diagnoses that may contribute to feeding problems, assessment, and treatment techniques from infancy through adolescence.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 695. Special Topics: Functional Neuroanatomy 3 Units
Term Typically Offered: Fall Only
Description: CMDS 695 provides an in-depth study of special areas or novel topics in speech-language pathology practice.
Note: May be repeated up to two times with different subtitles/topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 696. Augmentative/Alternative Communication 3 Units
Prerequisite(s): CMDS 652.
Description: Provides exposure to the area of augmentative/alternative communication (AAC). Topics include functional dimensions of AAC systems; symbol systems; transmission techniques; and intervention strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CMDS 699. Research Project 1-3 Units
Description: This course is the equivalent of a master's level thesis. The student will complete a research project that is suitable for future publication. The project is composed of developing a research question, completing a thorough review of the literature, developing the methodology to implement and conduct research, analyzing the data, and formulating conclusions, and need for future research. The completed project will be submitted to an appropriate journal for publication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Computer Engineering & Computer Science (CECS)

CECS 503. Survey of Computer Engineering and Computer Science
3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 130.
Description: Introduction to foundations of computer engineering and computer science for non-majors. Emphasis on C++ programming language, data structures and algorithms, and operating systems fundamentals. This course cannot be used to meet degree requirements for any CECS/CS/CSE degree.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 504. Automata Theory
3 Units

Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 310.
Description: Finite state machines and their application to engineering problems including modeling the behavior of discrete systems. Topics include theory of computing, formal language theory, and applications of cellular automata. Engineering models of digital computer hardware are covered and related to software design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 506. Modeling and Analysis of Engineering Systems
3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 330.
Description: Representation of engineering systems, Fourier analysis, z-transforms, frequency response, state-space analysis, stability, an introduction to the basic theory of filter design; and demonstrated concepts to CAS.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 510. Computer Design
3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 210.
Corequisite(s): ECE 511.
Description: Review of logic design and elementary computer organization. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.

Note: Cross-listed with ECE 510.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 516. Fundamentals of Computer Communications and Networks
3 Units

Term Typically Offered: Spring Only
Prerequisite(s): ECE 360 or IE 360, and CECS 412.
Description: Data communications: The exchange of data between devices is covered. The key aspects of transmission interfacing, link control, and multiplexing are examined. Data communication networking: Examines the internal mechanisms by which communication networks provide a data transfer service for attached devices.

Note: Cross-listed with ECE 518.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 522. Performance Evaluation of Computer Systems
3 Units

Term Typically Offered: Fall Only
Prerequisite(s): IE 360 and CECS 420.
Description: A study of approaches to the evaluation of computer systems. Measurement techniques and evaluation techniques are treated in detail with attention to existing commercial hardware and software monitors and simulators.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 525. Microcomputer Design
4 Units

Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 412 or CECS 412 or consent of instructor.
Description: Design and construction of microcomputers with microprocessors and digital integrated circuits. Breadboarding, hardware design, and software design are emphasized. The class is separated into groups, and each group designs, breadboards, and tests a complete microcomputer system, including interfaces to peripheral devices.

Note: Cross-listed with ECE 516.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 528. Game Design and Programming
3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): CECS 302.
Description: This course will provide an overview of Multimedia and Game programming, and teach basic computer game design techniques using state-of-art game engines.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 530. Design of Compilers
3 Units

Term Typically Offered: Spring, Summer
Prerequisite(s): CECS 420.
Description: Engineering descriptions of algorithmic language. Study of syntax, semantics, ambiguities, procedures, replication, iterations, and recursion in the language. Engineering design of a compiler.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CECS 535. Introduction to Databases
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 302 or equivalent.
Description: Course covers basics of database design, SQL, query processing, and optimization, transactions. The emphasis will be placed on Engineering design and implementation of relational systems. A written project is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 536. Data Management and Analysis
Term Typically Offered: Fall, Spring, Summer
Description: The goal of the course is to teach, to the students who are not Computer Science majors, the basic skills needed to organize, assess and analyze data sets. The course discusses a variety of tools (file systems, database systems, and the R environment) as well as a series of basic tasks, from generating metadata to basic filtering, organizing and enrichment of data sets. This course contributes to develop analysis, modeling and problem-solving skills.
Note: This course is intended for non-CECS majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 540. Object Oriented Information Technology
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Graduate standing.
Description: Survey of design and development of object oriented software. Software architectures, development environments, graphical user interfaces, and networks of distributed objects. Software design project required.
Note: CECS students cannot receive credit for CECS 440 and 540.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 542. Computer Control and Real Time Programming
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 412 or CECS 412.
Description: Programmable Logic Controllers, Human Machine interfaces, SCADA, state machines, sensors, and actuators. Study of industrial algorithms, open/closed loop real-time control and schematics.
Note: Cross-listed with ECE 517.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 545. Artificial Intelligence
Term Typically Offered: Fall Only
Prerequisite(s): CECS 302 and CECS 310.
Description: This course introduces the use of predicate calculus logic, heuristic search, and knowledge representations for solving engineering and computer science problems. The course includes coverage of rule-based expert systems, intelligent agents, and machine learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 550. Software Engineering
Term Typically Offered: Fall, Spring
Prerequisite(s): CECS 420.
Description: Engineering methods applied to the life-cycle issues in the team-oriented development of large software systems including issues of software processes, metrics, testing and quality. Documentation of the project and an oral presentation are required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 562. Introduction to Cryptography
Term Typically Offered: Summer Only
Prerequisite(s): CECS 310 and IE 360.
Description: This course gives a historical introduction to cryptography and the science of secret codes. The first part covers substitution ciphers, transposition ciphers, Vigenere cipher and more complex polyalphabetic substitutions including those created by rotor machines. The second part describes block cipher schemes such as Data Encryption Standard (DES). Public key encryption is the subject of the final part including RSA, Knapsack codes, and Diffie-Hellman key exchange.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 564. Information Security
Term Typically Offered: Summer Only
Prerequisite(s): CECS 311 and CECS 420.
Description: Technical, legal, and policy issues associated with information security. Authentication, trusted computer systems, information encryption, biometrics, computer forensics, and privacy issues. Written and verbal reports are required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 566. Computer Forensics
Term Typically Offered: Fall Only
Prerequisite(s): CECS 311, CECS 420, and CECS 566, or consent of instructor.
Description: Course examines legal, legal, administrative, technical and scientific issues in computer forensics, network forensics, information security and trusted systems. Course requires class participation, laboratory projects, writing and oral presentations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CECS 570. Mobile Device Program  
**Term Typically Offered:** Fall, Summer  
**Prerequisite(s):** CECS 220 or equivalent.  
**Description:** This course covers the basic concepts in designing and implementing applications running on Apple's iOS and Google's Android operating systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 590. Special Topics in Computer Engineering and Computer Science  
**Term Typically Offered:** Spring Only  
**Description:** Devoted to topics which usually are not treated in detail in the general courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 593. Independent Study in Computer Engineering and Computer Science  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.  
**Note:** Chair Approval is required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

CECS 596. CECS Capstone Design - CUE  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** CECS 525 (or concurrently) and CECS 550 (or concurrently); Senior standing.  
**Description:** This course requires solving a real-world design problem in computer engineering. It used hardware and software design methods and tools learned in previous coursework emphasizing teamwork, written, and oral communication.  
**Course Attribute(s):** CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 608. Advanced Design of Operating Systems  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** CECS 420.  
**Description:** Formal study of algorithms arising in the engineering design of operating systems. Models will be designed and analyzed as to performance measures and optimality. Topics include management protection, security, concurrency, and resource allocation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 609. Multimedia Processing  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** CECS 302 or consent of instructor.  
**Description:** This course aims to provide a broad introduction of multimedia representation, encoding/compression, storage, and communication. It covers multimedia standards such as JPEG, H.261, and MPEG. It also aims to provide an experience with the use, integration, and content-based indexing and retrieval of audio, image, video, and textual sources for some multimedia applications and services. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 611. Computer Architecture  
**Prerequisite(s):** CECS 510, CECS 525, ECE 510, ECE 516 or equivalent.  
**Description:** This course will provide in-depth exposure to advanced topics in computer architecture. The emphasis on studying and analyzing fundamental issues in computer architecture design and their impact on performance. Course topics include performance measurements; ISA; memory hierarchy design and cache memory; advanced pipelining; and advanced computer structures for instruction-level parallelism, instruction scheduling, data-level parallelism, and thread-level parallelism.  
**Note:** Cross-listed with ECE 611.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 613. Network Security  
**Prerequisite(s):** CECS 516.  
**Description:** This course provides basic knowledge and understanding of network security and vulnerability. The course also examines the internal mechanisms of various attacks and possible protection. Class participation, lab work, team projects, writing, and oral presentations will be integral components of the course.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 617. Mobile Computing  
**Prerequisite(s):** CECS 516.  
**Description:** Mobile communication and computing concepts, and related software development. Internal mechanisms by which mobile communication networks provide data transfer service for attached devices. Architecture of ad hoc networks and related protocols. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CECS 619. Design and Analysis of Computer Algorithms  3 Units  
Prerequisite(s): CECS 310 and IE 360.  
Description: This course covers the interrelationship between algorithmic statements, data structures, and computational complexity of computer programs. Algorithms are presented for a number of computer science and engineering applications including graph problems, string matching, dynamic programming, transitive closure, and convolution. The properties of NP-complete problems are introduced. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 620. Combinatorial Optimization and Modern Heuristics  3 Units  
Prerequisite(s): CECS 419 or equivalent.  
Description: Combinatorial Optimization and Modern Heuristics presents classical and modern search and optimization concepts, methods, and applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 621. Web Mining for E-Commerce and Information Retrieval  3 Units  
Prerequisite(s): CECS 419 or equivalent.  
Description: Fundamentals of knowledge discovery in semi-structured/unstructured data with emphasis on the World Wide Web: Web usage, content, and structure mining, applications to personalization, e-commerce, information retrieval, text mining. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 622. Simulation and Modeling of Discrete Systems  3 Units  
Prerequisite(s): IE 360.  
Description: Engineering design of simulation languages and simulators, discrete stochastic systems, issues in large scale simulation studies and engineering evaluation methods. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 625. Parallel Programming  3 Units  
Prerequisite(s): CECS 419 or equivalent.  
Description: This course will provide an overview of parallel computation and algorithms, and teach basic parallel programming techniques. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 627. Digital Image Processing  3 Units  
Prerequisite(s): CECS 506, or ECE 420, or faculty consent.  
Description: A course that surveys basic concepts in image processing and pattern recognition. Topics included are: contrast and edge enhancement, histogram modification, image segmentation, feature extraction, statistical classifiers. Design problems involving computer implementation of algorithms are used extensively. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 628. Computer Graphics  3 Units  
Prerequisite(s): CECS 302.  
Description: This course presents an introduction to computer graphics hardware and interactive engineering computer graphics techniques. Topics include engineering computer-aided design, graphics hardware (display processors and displays, hardcopy output devices, input devices), graphics standards and graphical kernel system, graphic object representation and transformation, interaction techniques, and three-dimensional graphics. Hardware graphics options are discussed and used. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 629. Distributed System Design  3 Units  
Prerequisite(s): CECS 420.  
Description: This course covers general concepts in the design and implementation of distributed systems, visiting topics in cluster computing, supercomputing, grid computing, and cloud computing. The course is composed of two building blocks: 1) distributing computing models including MPI and MapReduce programming, and 2) distributed storage techniques including networked, parallel, and distributed file systems. Our readings and discussions of research papers will help us understand general approaches to design, implement, and evaluate real distributed systems as well as identify open research problems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 630. Advanced Databases  3 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): CECS 535 or consent of instructor.  
Description: Object-relational databases; handling of complex types, XML and text in relational databases. NoSQL databases: data models and query languages. Data warehousing: design and implementation, query processing and optimization. Big Data: cluster computing, MapReduce and extensions, advanced analytical databases, distributed query processing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 631. Database Security  3 Units  
Prerequisite(s): CECS 535 or consent of instructor.  
Description: This course covers basic issues in the field Security for database systems. Topics include Security Architecture, Administration of Users and Password Policies, Database Application Security Models, Virtual Private Databases and Label Based Access Control, Database Auditing Models, and Application Data Auditing. The course contributes to the following ABET goals: written communication, and contains heavy coverage of the following ABET goals: Knowledge of contemporary issues in the field of computer engineering and computer science. The understanding of professional and ethical responsibility in the field of computer engineering and computer science. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### CECS 632. Data Mining
**Prerequisite(s):** IE 360 and CECS 535.  
**Description:** Data mining concepts, methodologies, and techniques, including statistical and fuzzy inference, cluster analysis, artificial neural networks, and genetic algorithms, rule association and decision trees, N-dimensional visualization, Web and text mining, and advanced topics.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 632</td>
<td>Data Mining</td>
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### CECS 633. Computer Vision
**Prerequisite(s):** CECS 627 or ECE 618 or consent of instructor.  
**Description:** Review of elementary pattern recognition and image processing: extension to advanced topics in computer vision, such as three-dimensional vision and perception, syntactic pattern recognition, motion, texture, and color vision applications.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 633</td>
<td>Computer Vision</td>
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### CECS 635. Data Mining with Linear Models
**Prerequisite(s):** CECS 220.  
**Description:** This course covers the theory and practice of linear models and mixed models as applied to different types of data.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 635</td>
<td>Data Mining with Linear Models</td>
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### CECS 640. Internet Application Design and Development
**Prerequisite(s):** CECS 220.  
**Description:** This course covers software design and development issues encountered in designing internet applications. Topics are HTML5 and CSS, HTTP and Servlet, JDBC, JSP Programming, Custom Tags and Java Bean, Connection Pooling, Web Application Architecture and Design, The Presentation Tier, The Business Logic Tier, The Persistence Tier, and Web Services.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 640</td>
<td>Internet Application Design and Development</td>
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### CECS 641. Medical Imaging Systems
**Prerequisite(s):** ECE 618 or ECE 555.  
**Description:** Focuses on the foundations of modern medical imaging. Topics include: X-ray generation and X-ray/tissue interactions, projection X-ray imaging, image reconstruction from projections, X-ray CT, MRI, nuclear medicine, SPECT, PET and Ultrasound.  
**Note:** Cross-listed with ECE 641.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 641</td>
<td>Medical Imaging Systems</td>
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### CECS 645. Advanced Artificial Intelligence
**Prerequisite(s):** CECS 545.  
**Description:** Advanced topics in artificial intelligence from current research publications. Oriented toward second year graduate students. Major project required.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 645</td>
<td>Advanced Artificial Intelligence</td>
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### CECS 646. Intelligent Systems
**Prerequisite(s):** CECS 545.  
**Description:** Advanced topics in artificial intelligence and intelligent systems, including machine learning, nontraditional logics, connectionist and evolutionary computing, autonomous robots, and intelligent monitoring and diagnosis of complex systems. A major project is required.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 660</td>
<td>Introduction to Bioinformatics</td>
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### CECS 690. Master of Science Thesis in Computer Science
**Description:** Experimental and/or theoretical research to be presented in thesis.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 690</td>
<td>Master of Science Thesis in Computer Science</td>
<td>1-6</td>
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### CECS 693. Independent Study in Computer Engineering and Computer Science
**Description:** Guided study of one or more CECS topics of interest.  
**Note:** Chair Approval is required.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 693</td>
<td>Independent Study in Computer Engineering and Computer Science</td>
<td>1-6</td>
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### CECS 694. Special Topics in Computer Engineering and Computer Science
**Description:** Devoted to topics which usually are not treated in detail in the general course.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 694</td>
<td>Special Topics in Computer Engineering and Computer Science</td>
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### CECS 695. Computer Engineering and Computer Science Seminar
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 695</td>
<td>Computer Engineering and Computer Science Seminar</td>
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### CECS 696. CECS Project
**Prerequisite(s):** Graduate standing in CECS.  
**Description:** Independent design or experimental project in Computer Engineering and Computer Science. Written and verbal reports required. Reports must include literature, speech, experimental methodology, design details, implementation details, test results, conclusions, and references. Verbal reports will be presented at a specified date each semester.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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<td>CECS 696</td>
<td>CECS Project</td>
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</table>
CECS 697. Master of Engineering Thesis in Computer Engineering and Computer Science 1-8 Units
Prerequisite(s): Graduate/Professional standing.
Description: A candidate for the Master of Engineering degree, specializing in the field of Computer Engineering and Computer Science, is required to perform a study, design, or investigation under the direction of a faculty member. A written dissertation is required to be presented and defended orally and submitted to the faculty for approval.
Note: This course may be repeated for a maximum total of eight semester hours.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 790. Special Topics in Computer Science & Engineering 1-6 Units
Description: Devoted to advanced topics that are not treated in the general courses. Topics will be announced in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 795. CECS Seminar 1-4 Units
Description: Seminar in Computer Science & Engineering
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 796. Independent Study in Computer Science & Engineering 1-6 Units
Prerequisite(s): Consent of advisor.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CECS 799. Dissertation Research 1-24 Units
Prerequisite(s): Consent of advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS Information Systems (CIS)

CIS 500. Computer Concepts for Managers 1.5 Units
Grading Basis: Pass/Fail
Prerequisite(s): ISDP 154 and ISDP 155; CIS 300.
Description: Fundamentals of application based software including spreadsheet, data manipulation and reporting, presentation graphics, and public network access.
Note: Pass/fail grading.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 610. eBusiness Models 3 Units
Prerequisite(s): MBA 668.
Description: Discussion of business concepts and strategic opportunities surrounding the emergence of eBusiness. Understanding how the Internet impacts existing business models and how these models are adapted for the digital economy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 615. Internet Systems and Tools for eBusiness 3 Units
Prerequisite(s): CIS 610 (or concurrently); CIS 675 or MBA 668.
Description: Discussion and use of Internet technologies and tools. Typical products (e.g., B2B and CRM) are evaluated to determine how they may be used to align with eBusiness strategic goals.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 620. eBusiness Practicum 3 Units
Prerequisite(s): CIS 610, CIS 615, CIS 675 or MBA 668.
Description: Application of digital economy concepts and Internet technologies to an eBusiness project. Teams will create an eBusiness model, develop system requirements, and implement web prototypes of the proposed solution.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 655. Computer Ethics and Social Issues 3 Units
Description: In-depth examination of the ethical and social aspects of computing. Topics include responsibilities for computer professionals, organizational and work transformation, privacy, social interaction in electronic forums, policy and other current issues. Case studies, in-class discussion, and position papers will be used extensively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 680. Special Topics in CIS 1-6 Units
Description: An advanced study of one or more selected topics on issues related to the study of Computer Information Systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CIS 698. Research Seminar in CIS 1-6 Units
Prerequisite(s): Permission of departmental chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Criminal Justice (CJ)

CJ 500. Crime and Criminal Justice in the Cinema 3 Units
Prerequisite(s): Senior standing.
Description: This course examines media representations of the criminal justice system in historical context and with global perspective to show the congruence and disparities between popular film and reality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 505. International Terrorism
Term Typically Offered: Occasionally Offered
Description: Investigation of international terrorism and terrorist organizations, focusing on causes, operations, organization, funding, threats and futures. Biological, chemical, nuclear and cyberspace terrorism are explored. Features of the impact of the media on terrorism, counter-terrorism, use of technology and prevention.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 507. Crime Prevention Through Environmental Design
Description: Introduction to the concept of Crime Prevention Through Environmental Design (CPTED). Emphasis will be placed on opportunity theories of crime and their application as well as means through which crime can be prevented using the built environment to reduced crime opportunity.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 509. Crime Analysis
Description: Crime analysis is a fairly new topic in criminal justice education. This course provides students with an opportunity to apply theory to crime data while learning introductory techniques of crime analysis and mapping.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 516. Juvenile Justice Issues
Description: An interdisciplinary seminar. Focuses on issues pertinent to the criminal justice system that reflect conflicting perspectives. This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 517. Gangs in America
Description: One of the main purposes of this course is to examine one of the most polarizing, difficult to research topics in Criminal Justice: Gangs. By exploring these dynamics and connections, the course will address the history, research, legislation, and policy implications related to Gangs, and the criminal justice system's response to Gangs. This course is divided into four points: 1) Defining Gangs, and the Historical Perspective of Gangs 2) Theoretical Basis of Gangs and Gang Involvement 3) Current Gang Trends, and 4) Gang Prevention/ Intervention.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 519. Domestic and Family Violence
Description: A course addressing issues relating to family violence, includes examination of partner abuse, child abuse, and elder abuse throughout the life-course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 520. Capital Punishment - WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing or consent of instructor.
Description: Seminar of issues related to the death penalty, including: constitutional questions, the effect of death row incarceration, and public attitudes toward the death penalty. Research on Kentucky will be featured.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 521. White Collar Crime - WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): CJ 200 and CJ 305, or consent of instructor.
Description: A study of white collar and occupational crime. Course will focus on the concept, theoretical explanations, the extent and nature of various types of white collar and occupational crime in both public and private sectors.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 522. Serial Murder
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing or consent of instructor.
Description: Examination of serial murder in the United States. Topics include serial murder and its relation to race and gender; the myth of serial murder; the media and serial murder and profiling.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 523. Race and Gender Issues in Criminal Justice - WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior standing or consent of faculty.
Description: This course will study the dynamics of racial discrimination and racial disparity in the U.S. and how it affects the criminal justice system.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 530. Intro to Homeland Security
Term Typically Offered: Occasionally Offered
Description: This course outlines the philosophy, purpose, and rationale for a separate governmental agency whose primary mission is focusing on homeland security. This course will also examine issues related to international and domestic terrorism and their effect(s) on trends in homeland security.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 531. Covert Operations in Policing  3 Units
Description: This course is an introduction to intelligence in policing and law enforcement with an emphasis on three key topics: 1) Developing awareness and understanding of human intelligence (HUMINT) as a primary means of collecting information required to develop intelligence for solving, predicting, and hindering crime & criminal behavior. 2) Developing skills in selecting and using analytical tools used by law enforcement intelligence and crime analysts: association and activities matrices, link analysis diagrams, social network analysis, pattern wheel analysis, mind mapping, concept map, and others. 3) Understand the critical role of planning in law enforcement and the relationship between planning, operations and intelligence.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 576. Managing Organizational Performance  3 Units
Prerequisite(s): Consent of department chair.
Description: Examination of factors affecting the management of organizational performance. Designed to help participants develop conceptual diagnostic and problem solving skills required of strategic managers in contemporary law enforcement organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 578. Criminal Justice Leadership - WR  3 Units
Description: Through the use of lectures and case studies (films), participants will be provided with a cognitive understanding of leadership that emphasizes the study of leadership models and theories. Study and evaluation of various leadership styles and processes.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 580. International Service Learning: Criminal Justice Seminar  3 Units
Prerequisite(s): Approval of program director.
Description: Study of criminology and criminal justice with a cross cultural perspective. Comparative criminal justice research regarding particular problems and issues in the host country will be conducted and examined. Travel outside the U.S. required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 596. Seminar in Criminal Justice  3 Units
Description: An interdisciplinary seminar. Focuses on issues pertinent to the criminal justice system that reflect conflicting perspectives.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 597. Ethics in Criminal Justice - WR  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Senior standing or consent of instructor.
Description: A study of the need for ethics in criminal justice. The aims of ethics, ethical theories, ethical issues related to law making, law breaking and law enforcement.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 602. Criminal Justice History  3 Units
Description: A study of the historical development of criminal justice agencies in the United States. The origin and influence of various European concepts of criminal justice and how they relate to past and present ideas in the United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 605. Police and Society  3 Units
Description: An examination of the police function as a component of the political system in the United States. The manner in which police give substance to the political system and are formed by it in turn. The interaction of the police with other governmental institutions in the political system.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 606. Personnel Management in the Criminal Justice System  3 Units
Description: Focus is on contemporary personnel management problems confronting agencies in the criminal justice system. Both the historical and the theoretical developments of personnel management are analyzed. Alternatives to current management procedures and systems are presented.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 607. Seminar in Law and Justice  3 Units
Description: Study of the premises, theories and research in the study of the relationship between law, society and justice. Emphasis is on the classics as well as selected modern and contemporary research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 609. Economic Analysis of Crime  3 Units
Description: A study of the economic scope of crime. The role of illegal gambling, loan sharking, labor racketeering, and legitimate business infiltration. The cost of crimes against property. The economic characteristic of high crime jurisdictions. Preventive programs and their costs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CJ 610. Theoretical Foundation of Corrections 3 Units
Description: A study of the psychological, sociological, political, and economic factors which contributed to the concept of corrections. The evolution of correctional thought and its role in contemporary and future reforms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 611. Critical Issues in Corrections 3 Units
Description: In-depth examination of contemporary issues in sentencing and corrections in our society. Particular emphasis will be given to best practices: recent policies and programs that have been developed to enhance the effectiveness and efficiency of sentencing and corrections within our society.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 612. Criminal Justice Administration: Police 3 Units
Description: An examination of the functions of police in society; principles of law enforcement organizations, administration, policy formulation, and management of personnel; statutory limitations on authority and jurisdiction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 613. Advanced Comparative Criminal Justice 3 Units
Description: In-depth examination of international legal systems and their related criminal justice systems including analysis of patterns of international crime and global criminal justice issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 614. Seminar in Policing 3 Units
Description: In-depth examination of contemporary issues facing police in our society. Particular emphasis will be given to police innovation: recent policies and programs that have been developed to enhance the police function of crime prevention (societal protection) and community relations (service).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 621. The Criminal Justice System 3 Units
Description: A study of the criminal justice system in the United States. A systems approach to the study of criminal justice and the interrelationships of the various components of the system. Social and political issues related to the criminal justice system are examined in depth.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 625. Legal Aspects of Criminal Justice Management 3 Units
Description: Examination of the legal issues within criminal justice management, the effects of constitutional provisions, statutes, ordinances, and judicial decisions on justice administration. A discussion of the legal aspects of selection, promotion, assignment, and termination of justice employees.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 626. Emergency Management 3 Units
Description: This course is an overview of emergency management in the United States and will focus on the four phases of the emergency management process: mitigation, preparedness, response and recovery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 627. Computer and Cyber Crime 3 Units
Description: This course examines advanced legal, policy and technical issues of computer, digital and electronic crime, including issues with digital & computational forensics, information security and privacy. Class participation, writing and oral presentations will be integral components of the course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 630. Critical Infrastructure Protection and Resilience 3 Units
Description: This course will address U.S. key infrastructures and assets, potential threats to these, their major vulnerabilities, methods used to assess these vulnerabilities and current U.S. policy pertaining to infrastructure and asset protection.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 643. Theories of Crime and Delinquency 3 Units
Description: A study of the psychological and sociological factors involved in criminal and delinquent behavior. The relationship of theory to the prevention and control of crime, treatment of offenders and administration of respective criminal justice agencies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 644. Seminar in Juvenile Justice 3 Units
Description: Theoretical and empirical study of the etiology, distribution and extent of delinquency; problems involved in measuring delinquency; role of the police, courts and legal statutes; critical examination of treatment and prevention programs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 649. Applied Statistics in Criminal Justice 3 Units
Description: Focuses on the use of statistical techniques in criminal justice. Emphasis on the application and interpretation of the statistics. Utilization of statistical application computer systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 650. Research Methods 3 Units
Description: The application of quantitative and qualitative analyses in criminal justice research. The concepts of validity, hypothesis, reliability, measurement, sampling, quasi-experimental construction, errors in reasoning, and statistics and approaches to the problems of the conduct of stringent and useful research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 652</td>
<td>Constitutional Issues in Criminal Justice</td>
<td>3</td>
<td>CJ 625 or instructor consent.</td>
<td>An in depth study of the US Constitution and US Supreme Court including history, structure and application of Constitutional rights and privileges. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 653</td>
<td>Communities and Crime</td>
<td>3</td>
<td></td>
<td>This course explores community-level theory and research within criminology. We will trace the development of community-level criminological theory and research from the work of Shaw and McKay to the work of contemporary scholars. Our tracing of this development will involve exploration of theoretical and methodological issues such as: the conceptualization and measurement of social disorganization, structural versus cultural effects in community models, social versus physical environmental effects, the role of community disorder in community crime models, the role of fear in community crime models, macro-level interactions within community-level models of crime, and use of theoretical integration and multi-level models in community crime research. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 655</td>
<td>International Perspectives on Violence</td>
<td>3</td>
<td></td>
<td>The course will discuss violence as a global phenomenon and will attempt to determine what is universal and what varies when cross-cultural comparisons of violent criminal behavior are made. In addition, the course will focus on the effects of globalization on the criminal justice field and will discuss important issues related to international crime, international law, and international law enforcement. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 656</td>
<td>Crime Mapping</td>
<td>3</td>
<td></td>
<td>This course will investigate theories, concepts, principles, and tools involved in better understanding crime incidents and crime patterns. Included will be weekly lab work following step-by-step tutorials that will provide students with a working knowledge of mapping software. Analyzing and interpreting a high-frequency Louisville crime problem and identifying police-based crime prevention techniques from the literature will be the subject of a final research project. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>CJ 657</td>
<td>Directed Studies/Readings</td>
<td>3</td>
<td>Consent of chair and instructor.</td>
<td>Independent study or research project under the direction of a member of the faculty. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 665</td>
<td>Special Topics in Justice and Criminology</td>
<td>3</td>
<td></td>
<td>Study of contemporary issues concerning the philosophy, management, and operations of criminal justice agencies. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 670</td>
<td>Professional Paper</td>
<td>3</td>
<td>Consent of chair.</td>
<td>Preparation of a paper of publishable quality based on research under the direction of a faculty member. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>CJ 699</td>
<td>Thesis</td>
<td>3</td>
<td>Consent of chair.</td>
<td>For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>CJ 703</td>
<td>Criminal Justice System Planning</td>
<td>3</td>
<td></td>
<td>Overview of planning theory, techniques and strategies within the criminal justice system. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>CJ 740</td>
<td>Seminar in Crime Prevention and Social Control</td>
<td>3</td>
<td>Consent of instructor.</td>
<td>Study of the history, theory and practice of crime prevention and social control. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>CJ 745</td>
<td>Advanced Criminal Behavior</td>
<td>3</td>
<td></td>
<td>Advanced study of various theoretical perspectives in the study of crime, criminal behavior and criminal justice. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 746</td>
<td>Seminar in Criminal Justice Program Planning &amp; Evaluation</td>
<td>3</td>
<td>Restricted to doctoral students.</td>
<td>Prerequisite(s): Restricted to doctoral students. Description: This course features: an introduction to the theory and practice of criminal justice planning, their strengths and weaknesses, the application of social scientific research methods to determine the effectiveness of criminal justice programs, analysis of reports of evaluative research and the preparation and analysis of evaluation research reports. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>CJ 747</td>
<td>Advanced Statistical Analysis in Criminal Justice</td>
<td>3</td>
<td>Consent of chair.</td>
<td>In-depth analysis of logic and uses of advanced research methods. Emphasis will be given to the use of quantitative research techniques, fundamentals, and perspectives of modern statistical techniques used in criminal justice research. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
</tbody>
</table>
CJ 750. Field Research in Criminal Justice 3 Units
Description: Development of expertise in understanding, planning, conducting and evaluating qualitative research methodologies. Special attention will be given to applying data collection and analysis techniques to social science investigations of crime and criminal justice processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 751. Advanced Statistical Computer Applications for Criminal Justice 3 Units
Description: The study of advanced statistical computer applications for research within criminal justice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 752. Advanced Research Methods in Criminal Justice 3 Units
Description: Research methods used in the analysis of criminal justice research. Quantitative and qualitative techniques, experimental and quasi-experimental design, data sources in the public sector, the use of data bases in the development and implementation of criminal justice evaluation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 795. Criminal Justice Qualifying Project 3-6 Units
Prerequisite(s): Completion of CJ PhD core curriculum; doctoral students only.
Description: Analysis of qualitative or quantitative data set and production of a manuscript suitable for publication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 798. Mentored Research in Criminal Justice 1-3 Units
Description: Independent research project conducted under the guidance of and in collaboration with a member of the Justice Administration research faculty.
Note: May be repeated for a maximum of six hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CJ 799. Dissertation Research in Criminal Justice 1-12 Units
Description: Dissertation research project under the direction of faculty committee.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Critical and Curatorial Studies (CCS)

CCS 547. Introduction to Critical and Curatorial Studies I 3 Units
Prerequisite(s): Consent of instructor.
Description: An introduction to curatorial practice of the last 30 years. Focusing on the curator’s increasingly prominent role in the reception and synthesis of contemporary art, the course explores developments in exhibition design in terms of art production, international exchange, globalization, and critical theory.
Note: Cross-listed with ARTH 547.
Note: A student may receive credit for only one of the courses: ARTH 547, CCS 547, ARTH 647, CCS 647.
Note: Formerly Museum Methods I.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CCS 548. Critical and Curatorial Studies II 3 Units
Prerequisite(s): ARTH 547, or CCS 547, or ARTH 647, or CCS 647, or consent of instructor.
Description: This seminar is structured as a curatorial practicum. Students work with the professor to develop and produce an exhibition from the university’s print collection. Throughout the semester, weekly readings and presentations focus on contemporary exhibition practice as well as on the theoretical and critical concerns undergirding the student’s developing exhibition.
Note: Cross-listed with ARTH 548.
Note: A student may receive credit for only one of the following courses: ARTH 548, ARTH 648, CCS 548 and CCS 648.
Note: Formerly taught as Museum Methods II.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CCS 600. Graduate Seminar 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Graduate standing.
Description: Reports, critiques, presentations and discussions on personal research and current topics in visual arts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CCS 643. Independent Study 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. Credit according to achievement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CCS 645. Thesis Guidance 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
CCS 646. Topics in Curatorial Studies 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Advanced study on selected topics in Critical and Curatorial Studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

CCS 647. Introduction to Critical and Curatorial Studies I 3 Units
Prerequisite(s): Consent of instructor.
Description: An introduction to curatorial practice of the last 30 years. Focusing on the curator’s increasingly prominent role in the reception and synthesis of contemporary art, the course explores developments in exhibition design in terms of art production, international exchange, globalization, and critical theory.
Note: A student may only receive credit for only one of the courses: ARTH 547, CCS 547, ARTH 647, CCS 647.
Note: Cross-listed with ARTH 647.
Note: Formerly Topics in Curatorial Studies.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 500. Foundations of Economics 3 Units
Prerequisite(s): Consent of instructor.
Description: Survey of supply and demand analysis, cost and production, and price determination in different market organizations. Analysis of GOP, unemployment, inflation, and economic growth.
Note: Cross-listed with PLAN 500.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 605. Urban Economics 3 Units
Prerequisite(s): PLAN 500, ECON 600, or consent of instructor.
Description: Application of economic theory to urban policy issues including metropolitan development and job creation, poverty, crime, transportation, environment, spatial structure, and other issues.
Note: Cross-listed with PADM 640, UPA 603, and PLAN 603.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 620. Economic Conditions and Forecasting 3 Units
Prerequisite(s): ECON 600 or ECON 605 or UPA 603 or PLAN 603 or PADM 640.
Description: Develops quantitative tools for the analysis and forecasting of economic phenomena. Both structural and time series models are presented. Basic econometric methods are used to fit models and evaluate their forecasting properties.
Note: Cross-listed with PLAN 628 and UPA 624.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 640. Urban Economics 3 Units
Prerequisite(s): ECON 500.
Description: The theories and principles of taxation, the economic impact of different taxes, the public debt, and fiscal policy are discussed. Taxation of the business firm is also discussed.
Note: Cross-listed with UPA 646.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 644. Health Economics 3 Units
Prerequisite(s): ECON 500 and elementary calculus.
Description: Examines health care issues by applying microeconomic theory. Particular emphasis on health insurance, managed care, health care production, and physician services.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 650. Macroeconomic Theory 3 Units
Prerequisite(s): ECON 500 and elementary calculus.
Description: Aggregate income and employment theory. Classical and Keynesian models; monetary and fiscal policy; the theory of growth and cycles.
Note: Cross-listed with UPA 625.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECON 660. Microeconomic Theory  3 Units
Prerequisite(s): ECON 500 or PLAN 500.
Description: A thorough examination of the theory of household and firm. Determination of price under different market structures.
Note: Cross-listed with UPA 625.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 680. Special Topics in Economics  1-6 Units
Description: An advanced study of one or more selected topics or issues related to the study of Economics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECON 698. Research Seminar in Economics  1-3 Units
Prerequisite(s): One 600-level economics course and permission of the departmental chair.
Description: Topics vary by semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 501. Independent Study: Training or Technical Education  1-3 Units
Term Typically Offered: Occasionally Offered
Description: Provides Training and Development students with course credit for special investigation into areas not currently subsumed in existing courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 510. Teaching Career and Technical Education  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to the College of Education and Human Development.
Description: A study of teaching practices as they apply to beginning teachers. Emphasis on practical procedures needed to succeed in teaching.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 515. Supervised Staff-Industry Exchange  1-3 Units
Prerequisite(s): Career & Technical Education Teacher Certification.
Description: Provides essential improvement experience for the occupational education teacher through placement in occupationally oriented job situations which are evaluated to assist the teacher in implementing new skills and updating techniques in the classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 574. Using Productivity Tools  3 Units
Description: Overview of applications of microcomputers and electronic media systems for instruction and management. Emphasis is placed upon use of general purpose integrated computer software. Current issues involving technology use for training/instruction and work/ classroom/school management will be the focus for the course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 578. Workplace and Information Ethics  3 Units
Term Typically Offered: Occasionally Offered
Description: Study and application of ethical perspectives at individual group, organizational, and societal levels, as they apply to leadership in workplaces and management of organizational information. Includes examination of social responsibility.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 600. Introduction to Research Methods and Statistics  3 Units
Description: Critical examination of research in education. Emphasis given to historical, empirical, and experimental methods of research; to techniques of research design and statistical analysis; and to skills in writing reviews and critiques of research literature.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 601. Applied Statistics  3 Units
Prerequisite(s): ELFH 600 or equivalent with faculty advisor’s approval.
Description: Examination of statistical methods, including sampling, estimation, testing of hypotheses, correlation and regression analysis. Some attention paid to non-parametric tests.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 602. Survey Research and Attitude Measurement  3 Units
Prerequisite(s): ELFH 601.
Description: Techniques for construction of evaluation instruments. Special attention given to surveys and questionnaires, sampling and scaling of attitudes and opinions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 603. Administrative Leadership in a Reform Environment  3 Units
Description: In this reform environment leaders will learn about leading schools within an integrated policy and governance framework from the federal, state, and district perspectives. Particular attention will be paid to the Kentucky Education Reform Act of 1990.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 604. Instructional Leadership and Supervision  3 Units
Description: Examines concept of school culture, supervision skills and approaches, observation instruments, and action models for instructional supervision. This course takes a proactive, school success approach to school administration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 605. Leadership in HROD 3 Units
Description: Study of the modern theories of leadership, management, and leadership development. Applied overview of the key concepts and principles of leadership and leadership development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 606. Program Evaluation 3 Units
Description: Examines the theories, techniques, methods, and program evaluation models currently used in assessing the effectiveness of learning programs and products in educational and other organizational settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 607. Principles of Educational Leadership 3 Units
Description: Examines concepts, analytical tools, case material, and organizational theories from the public, business, and educational administration sectors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 608. K-12 Leadership 3 Units
Description: Examination of critical responsibilities of K-12 educational leaders, including building and system administrators and supervisors, through guided observations outside of class (30% of course time) and through in-class activities (70% of course time). Emphasizes on processes and skills required in the context of reform in Kentucky and in the nation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 609. Internship in Educational Leadership 1-6 Units
Grading Basis: Pass/Fail
Description: Field-based, monitored leadership application activities augmented by seminars which assemble interns for reflection and informed discussions. The student will have the opportunity to "learn-by-doing" administrative work. Emphasis is upon elements of the Education Reform Act of 1990 and its implementation. Pass/Fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 610. Collaboration and Communication for Effective Leadership 3 Units
Description: A lecture-laboratory course to build student awareness and skills for effective collaborative leadership, communication, decision-making, community relations, and group management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 611. Strategic Human Resources 3 Units
Description: Examination of key concepts and principles of strategic human resource management, with special emphasis on the role of HR within the organization. Essential foundational knowledge and skills essential for HR professionals and managers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 612. Talent Acquisition and Management 3 Units
Description: Theories and techniques of key human resource management functions of HR planning and selection. A systems approach is used to explore HR planning as the managing of supply and demand for labor internal and external to the organization. Multiple strategies are examined for measuring predicted job performance to effectively plan, recruit, and select employees.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 613. Administration and Supervision in Special Education 3 Units
Description: The development, coordination, administration, and supervision of special services for exceptional children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 614. Program and Organization Evaluation 3 Units
Description: Examines program and organization evaluation with emphasis on principles of planning, information systems, evaluation, and decision making.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 615. Human Resource Development Internship 2-8 Units
Description: Supervised professional work experience in activities related to the student's program objectives. Designed to provide experience not possible in the classroom setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 616. HROD Integrative Capstone 3 Units
Description: Culminating experience that requires integration of research, theory, and practice of human resources and organization development through a fieldwork experience, program portfolio/systematic reflection on past work, and integrative content seminar.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 617. Evidence Based Research in HROD 3 Units
Description: Use and application of evidence-based research in Human Resources and Organizational Development. Emphasis on applying research to organizational decision-making. Includes accessing, interpreting, critiquing, and synthesizing research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 620. Legal Issues in P-12 Education 3 Units
Description: Examination of constitutional and statutory provisions and court decisions affecting educational leadership in P-12 education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
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ELFH 622. Educational Resource Management in P-12 Education 3 Units
Description: Study of resources, practices and procedures of finance and economics as related to P-12 education. Provides investigation of specific and current educational finance issues affecting educational institutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 623. Special Problems in Leading Instructional Improvements 1-6 Units
Prerequisite(s): Consent of instructor.
Description: Provides skills for persons engaged in instructional leadership who desire to investigate and/or develop specific functional programs for the purpose of improving instruction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 624. Global Human Resources Development 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): Application to the CEHD International Learning Program.
Description: Leadership and human resources development processes at the individual, group, organizational, and global levels are examined from a cross-cultural perceptive. Emphasis in placed on the assessment, challenge, and support activities constructive to developing global leadership skills and awareness in a variety of organizational and cultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 625. History of American Education 3 Units
Description: Examination of the function of educational processes in the context of American political, economic, and social history.
Note: Cross-listed with HIST 625.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 629. Youth and Adults with Special Needs in Career and Technical Education 3 Units
Description: Emphasis on integrating instructional and/or management activities to assist disadvantaged and handicapped persons enrolled in occupational education programs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 630. The School in the American Social Order 3 Units
Description: Examination of the school as a social institution, with emphasis on the interrelationship of the school with other social, political, and economic organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 631. Performance Management and Rewards 3 Units
Description: Theories and techniques of the key human resource functions of performance management, benefits, and compensation. Focus on using performance management and total rewards to achieve individual and organizational performance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 632. Ethics and Social Responsibility in the Workplace and Education 3 Units
Description: To identify moral and ethical issues in the workplace and education by applying critical thinking and analysis processes to ethical dilemmas.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 633. Organizational Structures and Operations 3 Units
Description: In this course candidates learn the four functions of operational vision and mission, school improvement planning and implementation, functions, procedures and structures, and legal frameworks.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 634. P-12 Leadership for Curriculum, Instruction, & Assessment 3 Units
Description: In this course candidates learn to fulfill education leaders’ responsibilities for planning, implementing, monitoring, and evaluating assessment, curriculum, and instruction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 635. P-12 Human Resources: Securing and Developing Staff 3 Units
Description: In this course candidates learn the four functions of securing and developing staff; staff selection, personnel evaluation, work conditions and environment, and professional development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 636. Shaping School Culture and Community 3 Units
Description: In this course candidates develop collaborative leadership skills and knowledge about school culture, learning communities for students and staff, and professional ethics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 637. Leveraging Community Systems and Resources 3 Units
Description: In this course candidates learn the functions for identifying, engaging, and deploying resident resources in the service of supporting student learning outcomes. Fifteen hours of community service is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 639. Management: Creating Sustainable Systems 3 Units
Prerequisite(s): ELFH 649.
Description: This course focuses on the responsibilities of the school district superintendent with an emphasis on managerial leadership. Students must be admitted to the Superintendent Certification Program prior to enrollment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 640. Developing a Philosophy of Education 3 Units
Description: Study of philosophic assumptions and principles governing the American school and the application of these assumptions and principles to practical problems of learning, teaching, and administration. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 641. Graduate Seminar: Leadership, Foundations and Human Resource Education 1-4 Units
Description: Detailed discussion of new and emerging themes in Leadership, Foundations and Human Resource Education. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 649. District Leadership: The Contemporary Superintendent 3 Units
Prerequisite(s): Applied to the superintendent certification program.
Description: This course focuses on the responsibilities of the school district superintendent, with an emphasis on the development and growth of the superintendent student in the area of strategic leadership as it relates to continuous school improvement. Students must have applied to the Superintendent Certification Program prior to enrollment. ELFH 649 is intended to be the first course in a four-course sequence for the Superintendent certification. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 659. Planning 3 Units
Description: Focuses on the development of planning, implementation, and leadership skills needed to direct strategic decision-making. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 660. Diversity and Inclusion 3 Units
Term Typically Offered: Fall, Spring
Description: Focuses on concepts of diversity and inclusion in organizations, and the changing demographics of our society, especially related to race and culture, gender, age, disability, sexual orientation and socio economic status. This course emphasizes the implications of these factors for effective management in human resources and organizations in general. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 661. Adult & Organizational Learning 3 Units
Description: Psychology applied to adult learning and organizational settings. Examines learning from both individual/team and organizational levels. Utilization of theories to increase individual and organizational performance through sustained and effective learning. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 662. Organizational Analysis 3 Units
Description: Examination of the process and techniques used to conduct an organizational analysis in order to identify societal, organizational, departmental and individual performance needs. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 663. Methods of Facilitation 3 Units
Description: Development of the presentation skills needed to conduct training programs in non-school settings. Focus placed upon the difference between teaching and facilitation of adult learning. This course is required for the Master of Science in Human Resource and Organization Development. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 664. Organizational Change and Consulting 3 Units
Description: Study of the organization as a system, how organizations change, and the role of the internal or external consultant in facilitating change. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 665. Foundations of Health Professions Education 3 Units
Prerequisite(s): Enrollment limited to students in a Health Professions Education graduate program (academic plan codes HRODMS HPE and HLTHCNP).
Description: This course provides a solid foundation to the profession of health education through a focus on professional roles and responsibilities, ethics and cultural competence, leadership and collaboration, and the adult learner. Additionally, as an introduction to the profession, this course includes an overview of teaching and learning in health professions education, instructional strategies, assessment, evidence-based practice and research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 666. Program Development & Assessment in Higher Education 3 Units
Description: Analysis and application of organizational/situational analysis and needs, and organizational responses through program design, development, implementation, student assessment measurements, and evaluation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 667. Instructional Planning for Student Learning and Achievement 3 Units
Prerequisite(s): ELFH 649 and ELFH 639.
Description: This course focuses on the responsibilities of the school district superintendent as they relate to instructional leadership. This is the third in a four-course sequence for those seeking superintendent certification. Students must be admitted to the Superintendent Certification Program prior to enrollment, and it is desirable for students to have completed ELFH 649 and ELFH 639 prior to enrollment in this course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 668. Academic Advising 3 Units
Description: Focuses on the history, foundation, and professional practices of academic advising as an essential component of student persistence and success at postsecondary institutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 670. Instructional Strategies 3 Units
Description: In this course, we will focus on what scholarly research can tell us about why we set up learning experiences the way that we do, as well as how we can apply these research findings in the contexts and situations where you are interacting with students. We will also examine the roadblocks that arise in implementing research-based plans and practices, and practice problem-solving to work around these roadblocks.
We will also explore ways to critique and evaluate instructional plans and interactions, as well as ways of using these critiques and evaluations to improve instructional design, teaching, and learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 671. Performance Improvement 3 Units
Description: Provides knowledge and skills to move from analysis of performance problems to identifying, selecting, and developing interventions that improve performance of individuals, groups, and organizations to achieve organizational goals.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 672. Instructional Design and Development 3 Units
Description: Emphasizes systematic processes for the design and development of instruction with application to education and training. Current theory and research on instructional design and development, in accordance with principles of teaching and learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 673. e-Learning Design and Development 3 Units
Prerequisite(s): ELFH 672 or equivalent instructional design skills.
Description: Techniques and tools for designing, developing, and delivering e-Learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 674. Advanced Leadership Theory 3 Units
Description: Participants will explore and develop an understanding of both classical and contemporary leadership theory. Theory and research will be integrated as a means to better understand the emergence of leadership, its practice as an art, and its application in contemporary practice within organizational settings. Critical perspectives on the topic will be discussed and reflected upon. Deep understanding of theory and practice will be covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 675. Teaching and Learning in Health Professions Education 3 Units
Prerequisite(s): Enrollment limited to students in a Health Professions Education graduate program (academic plan codes HRODMS HPE and HLTHCHP).
Description: This course introduces the principles and theories of teaching and learning within health professions education. Within a health context, this course will cover planning and preparing to teach, student motivation and engagement, and assessing the teaching-learning environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 676. Instructional Strategies in Health Professions Education 3 Units
Prerequisite(s): Enrollment limited to students in a Health Professions Education graduate program (academic plan codes HRODMS HPE and HLTHCHP).
Description: This course is designed to facilitate understanding of instructional strategies and their effective application in the classroom and clinical settings. Through a hands-on approach to learning, participants will learn to apply effective strategies that stimulate critical thinking and creativity, and promote cooperative learning. Teaching methods to be covered include presentation and facilitation skills, teaching at the bedside, appropriate use of instructional technology, and assessment of teaching effectiveness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 677. Technical Support Skills 3 Units
Prerequisite(s): Ability to use word processor software and e-mail.
Description: Overview of the evaluation, purchase, installation and ongoing management and maintenance of computer systems and related software for instruction and staff productivity.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 678. American College and University 3 Units
Description: Examination of historical development of the American college, community college, and university, including major ideas and concepts underlying these developments and major problems affecting present institutions of higher learning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 679. Systems for Change: Continuous School Improvement, A Clinical Practicum 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): ELFH 639, ELFH 649, and ELFH 667.
Description: This course requires students to further explore the multiple dimensions of the superintendent, including responsibilities related to culturally responsive leadership, external development leadership, and micropolitical leadership. This is the final course in the four course sequence leading to certification as superintendent. Students must be admitted to the program. This course is designed as a clinical practicum with the majority of time spent working in a school district with a mentoring superintendent on the culminating capstone experience. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 680. Legal Issues in Postsecondary Education 3 Units
Description: Examination of constitutional and statutory provisions and court decisions affecting educational leadership in post secondary education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 681. The Philosophy of Higher Education 3 Units
Description: This course focuses on analyzing competing philosophies of higher education, with the purpose of helping students construct consistent sets of beliefs about values in higher education as a guide to administrative and academic decisions. The study of higher education requires philosophical context, which will help you understand other coursework as well as your daily practice, work, and life. The central purpose of this course is to provide a philosophical grounding, which will help you comprehend higher education today. Philosophy does not have discrete answers and issues are continuously debated; however, it is possible to truly appreciate and understand your other coursework. Being aware of the philosophies undergirding higher education decisions and policies makes an individual able to critique, analyze, and understand these decisions better.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 682. The Organization and Administration of Higher Educational Institutions 3 Units
Description: Exploration of organizational and administrative theory as related to colleges and universities and assessment of the roles of major administrative units of the institution. Purpose is to aid students seeking to become college or university administrators or faculty members.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 683. College Teaching 3 Units
Description: This course introduces common theories of teaching and learning as students analyze elements of effective teaching; explore concepts such as critical thinking and metacognition; and consider learning assessment. Students receive support for (re)turning to the classroom as learners and develop a personal teaching philosophy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 684. Educational Resource Management in Postsecondary Education 3 Units
Description: Study of resources, practices and procedures of finance and economics as related to post-secondary education. Provides investigation of specific and current educational finance issues affecting educational institutions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 685. Evidence-based Practice in HPE 3 Units
Prerequisite(s): Enrollment limited to students in a Health Professions Education graduate program (academic plan codes HRODMS HPE and HLTHCHP)
Description: Through a clinical model, this course covers evidence-based decision-making as it applies to assessment of teaching effectiveness, action research, scholarly research, and program evaluation. Coursework will be tailored to the interests and current role of the learner and culminate in a scholarly project where learners will demonstrate competence in evidence-based decision-making and Health Professions Education competencies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 686. The Two-Year College 3 Units
Description: Analysis of the groups which mold and shape the two-year college as an institution; consideration of the three major adaptive responses of the college as an organization, administration, curriculum and instruction, and student personnel services; and analysis of fundamental issues facing the two-year college as it seeks to adapt to the social, educational, and economic needs of society.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 687. Education Policy & Equity 3 Units
Description: This course explores the policy making process, stages of implementation, and analysis of education policies. Federal and state-based policies across the P-20 education spectrum will be covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 688. Supervised Experience in Higher Education 3 Units
Description: This graduate-level course is designed to provide a guided, hands-on practical application and demonstration of professional knowledge and competencies in postsecondary administration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ELFH 689. Special Problems in Educational Leadership 1-6 Units
Description: Provides skills for persons engaged in educational leadership who desire to explore specific functional techniques for the purpose of improving administration and management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ELFH 690. Professional Project in Higher Education 1-6 Units
Grading Basis: Pass/Fail
Description: The internship in higher education is designed to provide you with the opportunity to integrate cognitive learning (coursework from the higher education program) with relevant practical experiences in an area of postsecondary administration. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 691. Graduate Independent Study 1-3 Units
Description: By arrangement with dean and advisor.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 692. Independent Study in Leadership 1-3 Units
Description: By arrangement with advisor and consent of dean.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 693. College Students in the United States 3 Units
Description: An introduction to the nature and characteristics of college students in the United States, educational outcomes and effects of the undergraduate experience, and factors that promote and inhibit college student success. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 694. Diversity in Higher Education 3 Units
Description: The purpose of this course is to explore the relationships among major forms of diversity (e.g., religion, class, race, ethnicity, gender, ability, age, sexual orientation, nationality, nativism) and higher education. Specifically, students will consider how diversity has shaped and continues to impact various higher education domains (e.g., history, students, faculty, organization and governance, policy) and how leaders within higher education institutions can be positive change agents regarding the diversity agenda. We will consider how diversity has shaped higher education institutions as well as how individuals and groups have influenced higher education institutions. Particular attention will be paid to issues of power, oppression, (dis-)privilege, equity, and educational attainment. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 695. Globalization & Higher Education 3 Units
Description: The purpose of this course is to introduce students to definitions of globalization and related concepts, such as internationalization, internationalism, and transnationalism. Moreover, this course will help students educate themselves about the impacts of globalization on higher education, particularly the practice of higher education administration in the United States. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 696. Independent Study: HRE or IT 1-3 Units
Description: By arrangement with dean and advisor.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 697. Organizational Improvement in Higher Education 3 Units
Description: This graduate-level course explores the processes of organizational improvement in higher education, the actors who contribute to such improvements, and the challenges to improvement. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 698. Supervised Readings 1-3 Units
Description: By arrangement with advisor and consent of dean.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 699. Thesis or Professional Paper 1-6 Units
Description: Culminating paper for masters degree (as per program plan), by arrangement with advisor.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 700. Research Concepts and Design 3 Units
Prerequisite(s): ELFH 601 or consent of instructor.
Description: Explores the logic of inquiry and examines and critiques a wide variety of research approaches. Students develop at least two approaches to researching a specific topic. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 701. Intermediate Applied Statistics 3 Units
Prerequisite(s): ELFH 601.
Description: Covers two intermediate statistics, analysis of variance and multiple regression as general data analytic techniques in applied research. Includes some programming and data processing. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 702. Applied Multiple Regression 3 Units
Prerequisite(s): ELFH 701.
Description: Applications of multiple regression as a general data analysis technique in educational and behavioral sciences. SPSS for Windows is used extensively. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 703. Multivariate Educational Statistics 3 Units
Prerequisite(s): ELFH 601, ELFH 701 and ELFH 702.
Description: Examines multivariate statistical methods used by educational researchers, including multiple regression, multivariate analysis of variance, and factor analysis. Computer software packages are extensively used. For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 704. Qualitative Field Research Methods 3 Units
Description: Provides opportunities to design and critique field studies in educational and social settings and to practice techniques used to collect and analyze qualitative. Additional time required outside class for observations and interviews. For class offerings for a specific term, refer to the Schedule of Classes.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELFH 705</td>
<td>Qualitative Data Analysis and Representation</td>
<td>3</td>
<td>Prerequisite(s): ELFH 704 or permission of instructor.</td>
<td>Study of techniques for qualitative data analysis, including computer assisted data analysis, and text and non-text representation of knowledge. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 710</td>
<td>Doctoral Seminar in Educational Leadership</td>
<td>3</td>
<td></td>
<td>Study of meaning and requirements of doctoral study. Discussion of current literature. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 711</td>
<td>UofL / WKU Cooperative Program</td>
<td>1-15</td>
<td></td>
<td>Provides research skills for intensive investigation of specific, current legal issues affecting the operation of educational institutions. Seminars are held periodically under the direction of the University Coordinator. Pass/Fail grading. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 715</td>
<td>Advanced Organizational Theory</td>
<td>3</td>
<td></td>
<td>Focus is on integrating the various theories of organizations and management into an overarching general systems theory. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 720</td>
<td>Advanced Internship in Leadership</td>
<td>1-6</td>
<td>Prerequisite(s): Admission to a program in Administration or Supervision</td>
<td>Provides on-the-job learning and professional development experiences for future administrative and supervisory personnel. Seminars are held periodically under the direction of the University Coordinator. Pass/Fail grading. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 723</td>
<td>Seminar in Legal Issues</td>
<td>3</td>
<td>Prerequisite(s): ELFH 620 or ELFH 680.</td>
<td>Provides research skills for intensive investigation of specific, current legal issues affecting the operation of educational institutions. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 730</td>
<td>Foundations of Urban Educational Policy</td>
<td>3</td>
<td>Prerequisite(s): Admission to doctoral program or consent of instructor.</td>
<td>An examination of urban educational policy from philosophical, social, historical, psychological, and legal points of view. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 735</td>
<td>Doctoral Seminar in HRE and IT</td>
<td>1-3</td>
<td>Prerequisite(s): Admission to doctoral program or consent of the</td>
<td>It is designed to expose students to the work of other doctoral students, faculty members, and other research professionals in human resource development. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 740</td>
<td>Advanced Internship in HRE and IT</td>
<td>2-6</td>
<td>Prerequisite(s): Doctoral student with an emphasis in human resource development and consent of advisor.</td>
<td>Provides on-the-job learning experiences for future human resource development. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 750</td>
<td>Doctoral Seminar in Educational Evaluation</td>
<td>3</td>
<td>Prerequisite(s): ELFH 606; PhD or EdD students or by consent of instructor.</td>
<td>Covers advanced topics in educational evaluation. Discussion of policy issues and quantitative and qualitative methods. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 760</td>
<td>Doctoral Internship in Educational Evaluation</td>
<td>3-6</td>
<td>Prerequisite(s): PhD or EdD students in the evaluation specialty area, and</td>
<td>Provides on-the-job learning experiences for future educational evaluators. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ELFH 764</td>
<td>Structural Equation Modeling</td>
<td>3</td>
<td></td>
<td>This course focuses on basic concepts, applications, and interpretations of structural equation models. Students should have a thorough understanding of multiple regression analysis. Exposure to EFA and ANOVA is recommended.</td>
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<tr>
<td>ELFH 765</td>
<td>Hierarchical Linear Modeling</td>
<td>3</td>
<td></td>
<td>This course focuses on the analysis and interpretation of organizational and longitudinal data using hierarchical linear modeling. Students taking this course should have a strong background in multiple regression.</td>
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</tbody>
</table>

**Note:** Cross-listed with EDAP 764 and ECPY 764.
ELFH 777. Capstone for Doctor of Education Degree in Educational Leadership and Organizational Development 1-15 Units
Prerequisite(s): Passing EdD comprehensive examinations.
Description: Provides a culminating assignment for Doctor of Education students. Consists of a group project designed to integrate theories and tools learned throughout the program.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 780. Problem Analysis in Educational Leadership I 3 Units
Prerequisite(s): ELFH 601, ELFH 700, and Research/Statistics Course.
Description: Doctoral level study of approaches to analyzing and solving contemporary problems encountered by educational administrators and leaders in such administrative areas as: personnel recruitment and selection, law, budgeting and finance, staff development, operational and strategic planning, policy formulation, diversity and multiculturalism, instructional leadership, and acquisition and use of technology for administrative purposes.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 781. Problem Analysis in Educational Leadership II 3 Units
Prerequisite(s): ELFH 780.
Description: Doctoral level study and application of approaches for investigating research-based and practice-based problems in educational administration and leadership. Extends expertise gained in EDAD 780 through analysis and application of problem solving and analytical approaches to administrative problem areas selected by the student. The problem areas addressed may include but are not limited to: budgeting and finance, staff development, operational and strategic planning, law, educational policies, policy formulation, diversity and multiculturalism, instructional leadership, and acquisition and use of technology for administrative purposes.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 782. Reflective Practice for School Leaders 3 Units
Description: Examines the complex realities of practicing school administration in public, independent and parochial schools by integrating action research projects with principal theories of administering schools.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 789. Advanced Research Design 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): ELFH 701; ELFH 600 or EDAP 639, or permission of instructor.
Description: Discussion of quantitative research methods and their application to the design of a study. Emphasis on designs for causal inferences about the effects of an intervention on outcomes variables, especially quasi-experimental designs.
Note: Cross-listed with ECPS 789, EDAP 789, HSS 789.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 790. Problems in Urban Education and Society 3 Units
Prerequisite(s): Twelve hours in Urban Studies component of doctoral program including ELFH 730, restricted to doctoral students or consent of instructor.
Description: Culminating course in Urban Studies component of EdD; with guidance from the instructor, students select and explore a problem that enables them to apply their course of study to some aspect of the urban environment.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 795. Doctoral Research 1-15 Units
Prerequisite(s): Passing doctoral comprehensive exams.
Description: Examination and admission to candidacy for the doctoral degree.
Note: Cross-listed with ECPS 795, EDSP 795, EDAD 795.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 796. Research Literature 1-6 Units
Prerequisite(s): Consent of instructor.
Description: For post-master’s students/candidates only.
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 798. Billing course EdD Practitioner 0 Units
Description: Billing course EdD Practitioner
For class offerings for a specific term, refer to the Schedule of Classes.

ELFH 799. Professional Paper 1-5 Units
Description: For EdS candidates only.
For class offerings for a specific term, refer to the Schedule of Classes.

Education: Advanced Practitioner (EDAP)

EDAP 510. Special Topics in Instruction 3 Units
For class offerings for a specific term, refer to the Schedule of Classes.

EDAP 511. Reading and Writing in Content Areas 3 Units
Prerequisite(s): 12 hours in education or psychology, or consent of instructor.
Description: A comparison of the developmental and remedial reader at the middle and secondary levels, with emphasis on developing instructional strategies, materials, and programs in middle and secondary content areas.
For class offerings for a specific term, refer to the Schedule of Classes.
EDAP 518. Survey of Linguistics for Educators  
Term Typically Offered: Occasionally Offered  
Description: This course is a survey of both the theoretical and applied aspects of Linguistics. This is not an in-depth exploration of single-topic in the field of Linguistics but rather, a course designed to introduce students to the discipline of linguistics, especially those who are classroom educators. This course serves to introduce students to aspects of theoretical linguistics (phonology, morphology, syntax, semantics, and pragmatics, L1 & L2 acquisition) and explore various aspects of applied linguistics (Sociolinguistics, Linguistic Anthropology, English Language Learners). This course will encourage students to think critically about language and its use and apply the theoretical aspects of linguistics in a way that informs best practices. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 521. Teaching English Learners in the Classroom  
3 Units  
Description: A focus on strategies for working effectively with English learners and their families by teachers in P-12 classrooms. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 525. World Englishes  
3 Units  
Prerequisite(s): EDAP 518 (or concurrently).  
Description: Exploring the historical, social, and political contexts of the discipline of World Englishes. Topics such as language standardization, the internationalization of English, and challenges of teaching and testing of English as an international language will be discussed. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 530. Language, Society & Power  
3 Units  
Prerequisite(s): EDAP 518 (or concurrently).  
Description: Exploring the intersection of language and culture by challenging students to think critically about language and culture and the impact of both across ages, genders, social classes, ethnicities, and personal identities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 535. Teaching English as an International Language  
3 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): EDAP 518 or permission of the ESL program coordinator.  
Description: May take concurrently with EDAP 518. This course will introduce students to the theoretical construct and practical consideration of teaching English overseas. It necessarily assumes English language teaching is an activity infused with social and political implications. By providing a theoretical construct as the course platform, the course will explore the roles of teachers and learners, the context of curricula, and the choice of methodology to reflect the cultural values of teaching English in an international setting. This course will be added as an additional option to the ESL endorsement program sheet; not as an additional program requirement. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 540. Teaching Adolescent Readers  
3 Units  
Description: Examines active reading processes, instructional strategies, and appropriate adolescent literature for teaching both the developmental and the remedial reader in secondary language arts.  
Note: Cross-listed with EDTP 540.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 542. Teaching Gifted Students in the Regular Classroom  
3 Units  
Description: Introduction to the nature and needs of gifted, talented, and creative children in K-12 classrooms, ways to meet these needs, and ways to increase gifted behaviors in a greater number of children than those already identified. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 585. Introduction to Educational Technology: Integrating Technology into Instruction  
3 Units  
Term Typically Offered: Occasionally Offered  
Description: Develop a skill base in using and critically evaluating the usefulness, validity, and viability of instructional technologies appropriate for use in the P-12 classroom. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 587. Teaching and Learning Online  
3 Units  
Description: This course is designed to help students actively explore multiple and varied ways to use online tools and resources to support learning in P-12 and higher education contexts. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 590. Teacher Institute on African-American Issues  
3 Units  
Description: An introduction to Pan-African Studies focusing on multicultural educational strategies for public school educators.  
Note: Cross-listed with PAS 529.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 591. Survey of African History and Culture for Teachers  
3 Units  
Description: An intensive survey of the history and culture of Africa (to 1600) for teachers.  
Note: Cross-listed with PAS 530.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 592. Survey of African-American History and Culture for Teachers  
3 Units  
Description: An intensive survey of the history and culture of African Americans for teachers.  
Note: Cross-listed with PAS 531.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 596. Seminar in Elementary Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 597. Seminar in Elementary Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 601. Teaching with Emerging Technologies 3 Units
Description: Provides a thorough working knowledge of philosophy and pedagogy found in the Foxfire approach, a learner-centered approach to classrooms. Prepares teachers at all levels to articulate, accept as valuable, and begin to develop the skills necessary to implement the eleven core practices of the Foxfire approach. Designed for teachers of children grades K-12.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 603. The Foxfire Approach to Teaching 3 Units
Description: Provides a thorough working knowledge of philosophy and pedagogy found in the Foxfire approach, a learner-centered approach to classrooms. Prepares teachers at all levels to articulate, accept as valuable, and begin to develop the skills necessary to implement the eleven core practices of the Foxfire approach. Designed for teachers of children grades K-12.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 604. Special Problems or Field Experience in Curriculum Development 3 Units
Description: Intensive study in a current problem in an area of curriculum development or curriculum construction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 605. Action Research for Classroom Teachers 3 Units
Grading Basis: Pass/Fail
Description: Involves teachers in identifying questions about their own teaching and classroom situations, developing research methods appropriate for addressing those questions, and conducting a classroom-based study. Pass/Fail only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 606. Orientation and Readings 3 Units
Prerequisite(s): Admission to the MEd Program.
Description: Read, discuss and write about current literature related to the key Program Concepts within discipline specific fields as well as across content areas, and develop a well-designed research study. Goals and themes of the program will be studied. Students will investigate the literature base supporting the overarching concept of the program: Teaching for Knowledge, Leadership and Change: Enabling Success for All Learners.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 608. Integrated Thematic Units 3 Units
Description: Enables participants to design units integrating several disciplines around an appropriate theme in ways that are appropriate for a diverse group of students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 610. Literacy Research & Theory 3 Units
Prerequisite(s): 12 hours in education, to include one introductory course in the teaching of reading.
Description: An advanced course in reading instruction providing an intensive analysis of current research in the theories and strategies of teaching in the elementary, middle or secondary level.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 611. Innovation and Leadership in Teaching 3 Units
Description: A study of methods of integrating mathematics, writing, and technology. Participants will work with children in a camp-like setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 612. Louisville Writing Project 1-6 Units
Term Typically Offered: Fall, Spring, Summer
Description: LWP is a year-long program aimed at improvement of writing instruction at all levels. It focuses on teacher as writer, as inquirer, and as instructional leader. LWP involves an intensive multi-week workshop as well as follow-up leadership and action research activities during the academic year.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 614. Supporting Struggling Readers and Writers K-12 3 Units
Prerequisite(s): One basic course on the teaching of reading and writing.
Description: Addresses the needs of teachers who work with students who have not learned to be fluent, eager and effective readers and writers. Focuses development of literacy concepts that define, support, keep flexible literacy skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 615. Measurement and Diagnosis of Literacy 3 Units
Prerequisite(s): EDAP 610.
Description: An introduction to diagnostic concepts in reading, with an emphasis on screening instruments, materials, and tutoring procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 618. Capstone Practicum in Literacy: Reading Specialist 3 Units
Prerequisite(s): EDAP 639, EDAP 610, and EDAP 614.
Description: Supervised internship providing for analysis and refinement of assessment and instruction practices in reading. Settings determined with pupil consultation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**EDAP 619. Environmental Education Institute: The Study of Rural and Urban Watersheds**  
**Description:** Using a watershed as the focus, this course will examine the impact people have on the environment. Through field trips, community speakers, individual and group research, the students will document the aesthetic, cultural and ecological aspects of a watershed. Participants in the course will be able to use the approach modeled in the course with their students on any watershed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 620. Introduction to Teaching Elementary Mathematics Education**  
**Description:** An investigation of trends, learning theories, instructional activities, and manipulative materials applicable to mathematics education in the elementary school.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 621. Advanced Methods for Teaching Elementary Mathematics**  
**Prerequisite(s):** A course in teaching elementary mathematics.  
**Description:** An advanced course investigating trends, learning theories, instructional activities, and manipulative materials applicable to mathematics education in the elementary school.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 622. Assessment and Instruction in Mathematics Education**  
**Prerequisite(s):** EDAP 620 or EDAP 621 or consent of instructor.  
**Description:** A study of methods for assessing students' knowledge and ability in mathematics, and of instructional strategies for increasing students' knowledge and ability in mathematics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 623. Integrating Mathematics with Other Content Areas**  
**Description:** An investigation of theories, methods, and materials for integrating mathematics with other content areas. Content areas may vary.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 624. Curriculum Theory**  
**Prerequisite(s):** Admission to the MEd program.  
**Description:** Study of significant curriculum theories as they relate to American schooling historically and today. While primarily an opportunity for exploring theory and philosophy of curriculum, students will be encouraged to link theory to practice.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 625. Social and Ethical Development in Teaching**  
**Description:** Study of theoretical and practical constructs that foster caring and integration of children's and adolescents' intellectual, ethical, and social development in the classrooms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 626. Critical Diversity Readings in Education**  
**Term Typically Offered:** Occasionally Offered  
**Description:** Extends the principles of diversity, equity, and advocacy. Builds upon the historical, sociological, and philosophical foundations of multicultural education using critical theories to explore texts and further discussions of diversity.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 627. Kentucky Institute for Arts in Education**  
**Grading Basis:** Pass/Fail  
**Description:** Kentucky Institute for Arts in Education is a two week course designed to provide participants with hands-on experience in dance/movement, drama, music, visual art and creative writing.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 628. Kentucky Institute for Arts in Education**  
**Grading Basis:** Pass/Fail  
**Description:** Kentucky Institute for Arts in Education is a two week course designed to provide participants with hands-on experience in dance/movement, drama, music, visual art and creative writing.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 629. Teaching Mathematics with Technology**  
**Description:** Focuses on using technology as a tool in the teaching of mathematics in elementary and middle school.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 630. Theories of Child Development**  
**Description:** Analysis and comparison of psychoanalytic, cognitive behavioral perspectives of child development. Traces growth and development of children 0-12 years as the foundation for curriculum development.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 633. Advanced Curriculum and Methods in Early Childhood Special Education**  
**Prerequisite(s):** Admission to Teacher Education.  
**Description:** Explores early childhood models, strategies, and materials appropriate for use with children with special needs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 635. Administration and Consultations: Day Care and Early Childhood Education**  
**Prerequisite(s):** Admission to Teacher Education.  
**Description:** Explores the responsibilities of the day care or early childhood director and the early childhood consultant.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**EDAP 636. Advanced Reading Methods P-12**  
**Description:** This course addresses knowledge and implementation of research-based reading methods appropriate for preschool through secondary students, with an emphasis on developing skillful and strategic lifelong readers. Concepts from the course will be applied in P-12 through required field experience.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 637. Using Assessment to Improve Student Achievement 3 Units  
**Description:** Addresses knowledge and implementation of assessment concepts, methods of analyzing various types of student achievement data, and planning and implementation of appropriate instruction and interventions for diverse learners.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 638. Instructional Strategies for Diverse Learners 3 Units  
**Description:** Investigation of differentiated, culturally relevant instructional strategies and materials to improve and manage instruction while integrating technology-enhanced practices to meet the needs of diverse learners in the 21st century.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 639. Education Research in P-12 Setting 3 Units  
**Description:** Analysis of research in education relative to methodology and current research efforts in the field. Consideration given to understanding research design and the reading of research studies.

**Note:** Cross-listed with EDSP 639.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 640. Cognitive Coaching 3 Units  
**Description:** Addresses the advanced knowledge, skills, and dispositions needed for teachers involved in coaching and/or mentoring relationships. The focus will be on using Cognitive Coaching to support reflective, self-directed teachers.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 641. Literacy Leadership and School-Wide Planning 3 Units  
**Prerequisite(s):** EDAP 610, EDAP 639, EDAP 614, and EDAP 615.  
**Description:** Addresses teacher literacy leadership, including the role of the reading specialist/literacy coach, professional development techniques, using data for school literacy improvement, and developing school community and family literacy partnerships.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 642. Literacy Learning and Cultural Differences 3 Units  
**Description:** Explores the current knowledge base and theoretical frameworks used to explain differential achievement rates between students of diverse cultural, ethnic, and linguistic backgrounds.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 644. Reading/Writing Workshop: Using Children's Literature to Empower Readers and Writers K-12 3 Units  
**Prerequisite(s):** Preservice course in literacy or consent of instructor.  
**Description:** Students experience the workshop approach to teach writing and create passion for literacy, learning about writers' sketch notebooks, using writings of exceptional authors, creating community that fosters risk-taking and critical thinking, and integrating the arts.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 645. Advanced Studies of Children's Literature 3 Units  
**Prerequisite(s):** Previous undergraduate language arts/literature course or permission of instructor.

**Description:** Explores literature available for preschool through 8th grade; studies the role of literature in child development and curriculum; identifies trends and issues; and develops evaluative criteria.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 646. Advanced Methods: Number and Algebra 3 Units  
**Prerequisite(s):** Successful completion of an Elementary Mathematics Methods course.

**Description:** This course is designed to take an in-depth look at the teaching and learning of rational numbers and algebra. The focus is on mathematics and strategies to teach and support the Common Core Standards in Mathematics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 647. Advanced Methods: Geometry and Data 3 Units  
**Prerequisite(s):** Successful completion of Elementary Mathematics Methods course.

**Description:** This course is designed to take an in-depth look at the teaching and learning of geometry and data. This course will focus on curriculum design and leadership.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 649. Using Literacies and Tools to Learn: Inquiry in the Classroom 3 Units

**Description:** Examines the theoretical underpinnings and practical implementation of inquiry-based learning by creating an intensive inquiry experience/curriculum for students. By "living" the curriculum, students will come to understand how inquiry experiences are initiated and maintained, how to merge them with curriculum "have to's," and how to integrate real world resources in meaningful ways for learners.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 651. Expanding Classroom Walls: Forests, Parks, and Backyards 3 Units

**Description:** Provides information and experience needed to effectively teach the life and earth science concepts and strategies found in a forest or park setting to classroom learning.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 652. Workshop in Science Education 1-6 Units

**Description:** A workshop dealing with materials and techniques in teaching science; includes development and evaluation of innovative and practical service projects using teaching strategies.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 653. Instructional Procedures in Science: Zoos 3 Units
Description: Provides background information and experience needed to effectively teach animal adaptation, animal endangerment, diversity of lifestyle and the application of these learnings to classroom instruction. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 657. Exploring Environmental Education in the Context of an Informal Learning Setting: Zoo 3 Units
Description: In this course, we will explore the application of the basic content of life sciences topics such as taxonomy, animal behavior (adaptations), biodiversity and conservation issues to the K-12 classroom. Students will explore real life applications to life sciences that apply to environmental education with the aim to inspire conservation action. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 660. Social Studies in the Elementary School 3 Units
Prerequisite(s): EDTP 322 or EDTP 606 or consent of instructor.
Description: An advanced course in teaching social studies; appraisal of materials and newly developed social studies program use of effective teaching techniques; analysis of relevant research studies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 661. Special Topics in Assessment 3 Units
Description: Examines alternative approaches to assessing instruction and learning in science classrooms. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 662. Workshop in Social Studies Education 3 Units
Description: Experience with content, techniques, and materials for teaching social studies in elementary and secondary schools. Offered each summer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 663. Research in Life Sciences: Ethology for Middle Grades 3 Units
Description: Provides an introduction to observational methods of studying animal behavior and the scientific methods. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 664. Environmental Education in Schools 3 Units
Description: Provides background information and experience needed to teach environmental education concepts on school grounds in K-12 schools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 665. Biomes and Habitats 3 Units
Description: This class will support teachers in meaningful learning of science content by exploring environmental issues in specific biomes and habitats. There will be an emphasis on developing scientific dialogues concerning these issues using research and dialectical or analytical argumentation, as well as self-and peer-evaluation of the dialogues. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 666. Consumer Economics in the Classroom 3 Units
Description: Includes consumer topics, behavior and problems. Teaching strategies and materials appropriate for teaching consumer education will be emphasized. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 667. The Media & Consumer Education 3 Units
Description: Examines mass media with special attention to marketing and advertising principles and practices. Directly applies these principles and practices to the elementary and secondary curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 668. Workshop in Economic Education 3 Units
Description: Basic economic content, techniques and materials for integrating economics into elementary and secondary subjects. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 669. Economic Education Curriculum and Teaching 3 Units
Description: Examines economic content, materials and strategies. Economic education teaching units are developed, taught and evaluated. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 672. Special Topics in Curriculum 1-6 Units
Description: Intensive study of a current problem in an area of curriculum development or curriculum construction. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 673. Introduction to Environmental Education 3 Units
Description: Examines philosophical, historical, curricular and instructional issues pertaining to the environment and the concept of sustainable development and relates these to outcome-based education. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 674. Math for Girls and Problem Solvers 3 Units
Description: Examines issues related to gender and mathematics. Emphasis on strategies that benefit all students. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 676. Technology Applications for Mathematics and Science Teachers 3 Units
Prerequisite(s): Admission to 8-12 MEd or MAT program or consent of instructor.
Description: Methods, techniques, and materials of instruction for meaningful and appropriate use of technology for the teaching of mathematics and science in the middle and high school. Equipment and computer software used in the course as well as student projects required will vary according to advances in the available technology and the interest of prospective students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 677. Developing Collaborative Groups: Facilitating, Coaching and Mentoring 3 Units
Description: This course (a) addresses the knowledge, skills, and dispositions needed for teachers to enhance effective practice with peers in schools and (b) develops evidence-based strategies to support reflective, self-directed teachers who positively impact student achievement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 678. Language Knowledge and Acquisition 3 Units
Description: Addresses teacher mastery of structure of the English language and alphabetic writing system, and knowledge of language acquisition to help diverse learners learn to read and write.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 679. Capstone Practicum in Literacy: Literacy Coach 3 Units
Prerequisite(s): EDAP 641.
Description: This course is a supervised practicum providing for analysis and refinement of the literacy coach role in the public school.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 680. Capstone Course 3 Units
Prerequisite(s): Completion of 70 percent of MEd courses.
Description: An advanced course synthesizing student study in content areas along with social justice/equity, leadership, and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 681. Teacher Leadership in Practice 3 Units
Term Typically Offered: Fall, Spring
Description: This course focuses on teacher knowledge, skills, and dispositions needed for teachers to be leaders in their content field and within their classrooms and schools. Course includes development of teacher leadership skills, as well as implementing action research in one’s content area to positively impact student learning opportunities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 685. Special Topics in Gifted Education 3 Units
Description: Current topics in the education of the gifted. Course topics will vary as needed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 686. Learning Styles: Curriculum & Instruction 3 Units
Description: An examination of learning style theory and its personal and professional implications for K-12 school personnel, especially curricular and instructional applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 687. Literacy, Teaching and Technology 3 Units
Description: Engages students in critical reading, thinking, writing and discussion about central issues and theoretical perspectives in research on literacy and technology, especially the new literacies of emergent technologies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 688. Designing a Technology Integrated Curriculum 3 Units
Description: Designed to provide experiences in technology integrated curriculum design to support meaningful and engaging learning experiences for all students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 689. Using the Internet in P-12 Teaching 3 Units
Description: Develop knowledge and skills in using and creating online content for classroom instructional use.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 690. Teaching with Multimedia Tools 3 Units
Description: Develop knowledge and skills using and authoring multimedia for classroom instructional use.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 691. Teachers as Writers: Writing for Professional Publication 3 Units
Description: Workshop approach to developing articles for publication in educational journals, newsletters, and websites. Participants will analyze potential markets and submit final drafts for publication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 692. Teachers as Writers: Writing for Children 3 Units
Description: Workshop approach to developing manuscripts in a variety of genres for young readers through adolescents. Participants will analyze potential markets and submit final drafts for publication, as well as develop teaching applications for strategies experienced during the course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 693. Teaching Writing, P-12  
**Description:** Introductory course. Strategy lessons on personal, literacy, transactive (informational and persuasive), and reflective writing; writing to learn; writing to demonstrate learning (open response, and on demand writing).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 694. Special Topics in Literacy  
**Prerequisite(s):** Consent of instructor.  
**Description:** Current topics in reading education. Course topics will vary as needed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 695. African American English in Society and Schools  
**Term Typically Offered:** Fall Odd Years  
**Description:** This course deals with the distinctive varieties of English used by and among African Americans and their parallels elsewhere in African and the New World.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 696. Independent Study  
**Units:** 1-3  
**Description:** Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. By arrangement with dean and advisor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 698. Supervised Readings  
**Units:** 1-2  
**Description:** By arrangement with dean and advisor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 699. Thesis or Professional Paper  
**Prerequisite(s):** ELFH 600 or consent of faculty advisor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 710. Advanced Literacy Research and Theory  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Consent of instructor.  
**Description:** An advanced course in literacy, providing an intense analysis of current research and theories in the strategies of teaching literacy at the elementary, middle and high school levels. Doctoral students should register for this section.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 711. Doctoral Professional Seminar: First Year  
**Prerequisite(s):** Must be first-year PhD student in Curriculum & Instruction Program.  
**Description:** An orientation to doctoral work in Curriculum & Instruction organized into 3 strands: professional strategies for success, skills critical to successful doctoral work, and cognitive orientations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 720. Implications of Research in Mathematics Education  
**Prerequisite(s):** Consent of instructor.  
**Description:** A survey of mathematics research regarding its implications for mathematics education and its implementations in educational systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 730. Research in Infancy and Early Childhood  
**Prerequisite(s):** ELFH 600 and EDAP 696.  
**Description:** Development of research design in infant and early childhood education. Methods and techniques in the study of children. Each student designs and completes a research problem.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 735. Preparing Future Faculty in Languages, Literacies, Cultures, and Communities  
**Term Typically Offered:** Spring Odd Years  
**Description:** Required of every doctoral student in the L2C2 strand of the Curriculum and Instruction Doctoral program. A teaching and learning apprenticeship in higher education.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 740. Seminar in Curriculum Theory and Design  
**Prerequisite(s):** EDAP 750.  
**Description:** An advanced study of theories of curriculum structure and content; recent research and implications for curriculum design.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 750. Advanced Readings in Languages, Literacies, Cultures, and Communities  
**Term Typically Offered:** Summer Odd Years  
**Description:** A readings seminar about literacy education with an emphasis on theory, philosophy, history, trends and issues that impact research, policy and practice related to language, literacy and culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDAP 764. Structural Equation Modeling  
**Description:** This course focuses on basic concepts, applications, and interpretation of structural equation models. Students should have a thorough understanding of multiple regression analysis. Exposure to EFA and ANOVA is recommended.  
**Note:** Cross-listed with ECPY 764 and ELFH 764.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 765. Hierarchical Linear Modeling  
**Description:** This course focuses on the analysis and interpretation of organizational and longitudinal data using hierarchical linear modeling. Students taking this course should have a strong background in multiple regression.  
**Note:** Cross-listed with ECPY 765 and ELFH 765.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 780. Seminar in Teaching and Learning  
**Prerequisite(s):** Near the end of the doctoral program and by permission of instructor (for students in supervision subspecialty).  
**Description:** Provides an information base in the field of interest, opportunities to explore recent innovations in supervision, and practice in evaluating selected supervision strategies.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 789. Advanced Research Design  
**Term Typically Offered:** Summer Only  
**Prerequisite(s):** ELFH 701, and either ELFH 600 or EDAP 639, or permission of instructor.  
**Description:** Discussion of quantitative research methods and their application to the design of a study. Emphasis on designs for causal inferences about the effects of an intervention on outcomes variables, especially quasi-experimental designs.  
**Note:** Cross-listed with ECPY 789, ELFH 789, HSS 789.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 790. Doctoral Dissertation Seminar  
**Prerequisite(s):** Basic knowledge, understanding, and skill competency in research design, methodology, and analysis and most doctoral coursework completed.  
**Description:** Doctoral students will be provided an opportunity to critique and report on research from various fields, conceptualize and formulate ideas and topics, and develop a formal presentation and defense of a research proposal.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 795. Doctoral Research  
**Prerequisite(s):** Completion of coursework for PhD program or successful completion of comprehensive examinations.  
**Description:** Dissertation research.  
**Note:** Cross-listed with ELFH 795, ECPY 795, and EDSP 795.

For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 796. Contemporary Issues in Literacy Research  
**Term Typically Offered:** Occasionally Offered  
**Description:** A review of current research regarding children's and adolescents' language and literacy development with a focus on how teachers' knowledge about contemporary research issues can positively affect literacy instruction.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 798. Research Apprenticeship in Languages, Literacies, Cultures, and Communities  
**Term Typically Offered:** Spring Even Years  
**Description:** A course that supports beginning researchers in languages, literacies, communities, and cultures to develop an deepen skills in qualitative research methods, including data collection, data analysis, and presentation of findings.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDAP 799. Professional Paper  
**Description:** For EdS candidates only.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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**Education: Teacher Preparation (EDTP)**

EDTP 501. General Methods  
**Prerequisite(s):** Admission to teacher education.  
**Description:** Prepares pre-service teachers to: identify appropriate learning goals for students; design learning experiences that include a variety of developmentally appropriate instructional strategies; manage a range of students, materials, and classroom activities; and honor students' diversity with respect to learning style, motivation, race/ethnicity, gender, and language proficiency.  
For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDTP 502. Exploring Teaching in the Sociopolitical Contexts of P-12 Schools 3 Units
Prerequisite(s): Admission to teacher education.
Description: The sociocultural contexts of P-12 teaching are ever shifting. Society's expectations for schools and the role that teachers are expected to assume must be understood in relation to the social, cultural, political, and historical contexts from which they arise. Teacher candidates must be made aware of the ways in which these multiple and overlapping contexts influence their future work as classroom teachers. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 503. Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds 3 Units
Prerequisite(s): Admission to teacher education.
Description: Extends the principles of curriculum, development, teaching and learning introduced in previous courses to working with students from diverse, ethnic, racial, linguistic, and socioeconomic backgrounds. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 504. Teaching with Technology 2 Units
Prerequisite(s): Admission to teacher education.
Description: Leading teachers to understand and apply current technologies in classroom instruction. The tools of technology are explored for their creative application in education of P-12 children across the curriculum. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 505. Challenging Advanced Learners 1 Unit
Prerequisite(s): EDTP 450 (or concurrent), EDTP 612 (or concurrent), EDTP 613 (or concurrent), EDTP 615 (or concurrent), EDTP 616 (or concurrent), EDTP 617 (or concurrent), EDTP 618 (or concurrent), or permission of instructor.
Description: Study of methods for identifying gifted/talented students and differentiating curriculum and instruction to meet their needs. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 522. Methods of Teaching Grammar, K-12 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education.
Description: Examination of K-12 Common Core State Standards for Language and best practices in grammar study. Development of research-based lessons and strategies for teaching grammar in the context of reading and writing instruction. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 527. Inquiry into Early Childhood Education and Child Development 3 Units
Prerequisite(s): Graduate Status.
Description: Examination of physical, cognitive, language, affective and social development of typically and atypically developing children from conception to age five, with implications for early childhood education. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 532. Advanced Curriculum and Methods in Early Childhood Education 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to Teacher Education.
Description: Examination of contemporary curriculum development in programs for young children. Emphasis on contemporary education, methodology and strategies for dealing with children from diverse cultural backgrounds, materials and facilities in early childhood education. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 535. Classroom Speech Correction 3 Units
For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 536. Theories of Play 3 Units
Prerequisite(s): Graduate status.
Description: Offers knowledge about how play contributes to young children’s development and learning. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 537. Infant/Toddler Development & Care 3 Units
Prerequisite(s): Graduate status.
Description: Examines the development and educational needs of children from birth to age three. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 540. Teaching Adolescent Readers 3 Units
Description: Examines active reading processes, instructional strategies, and appropriate adolescent literature for teaching both the developmental and the remedial reader in secondary language arts. Note: Cross-listed with EDAP 540.

EDTP 541. Teaching Middle School 3 Units
Description: Teaching Middle School is an in-depth study of philosophy, organizational patterns, developmental issues, and curriculum concepts related to teaching at the middle level. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 580. Digital Citizenship: Technology and Teaching 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Admission to Teacher Education or consent of instructor.
Description: Teachers understand and apply the concept of digital citizenship as they explore the creative application of current tools of technology in the education of K-12 children. For class offerings for a specific term, refer to the Schedule of Classes.
EDTP 581. Technology Applications for Mathematics Teaching  3 Units
Prerequisite(s): Admission to the Middle School or Secondary MAT program or consent of instructor.
Description: Methods, materials, and techniques to support the meaningful and appropriate use of technology in the teaching of middle and high school mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 582. Technology Applications for Science Teachers  3 Units
Prerequisite(s): Admission to Middle School or Secondary MAT program or consent of instructor.
Description: Methods, materials, and techniques to support the meaningful and appropriate use of technology in the teaching of middle and high school science.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 602. Exploring Teaching in the Sociopolitical Contexts of P-12 Schools  3 Units
Prerequisite(s): Admission to teacher education.
Description: The sociocultural contexts of P-12 teaching are ever shifting. Society’s expectations for schools and the roles that teachers are expected to assume must be understood in relation to the social, cultural, political, and historical contexts from which they arise. Teacher candidates must be made aware of the ways in which multiple and overlapping contexts influence their future work as classroom teachers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 603. P-5 Language Arts Methods  3 Units
Prerequisite(s): EDTP 602, ECPY 607, and EDTP 501.
Description: Examines specific strategies and practices for teaching children with and without disabilities, giftedness, and other individual differences in grades P-5.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 604. P-5 Mathematics Methods  3 Units
Prerequisite(s): EDTP 602, ECPY 607 and EDTP 501.
Description: Investigation of trends, learning theories, instructional activities, and manipulative materials applicable to mathematics education in the elementary school. The focus of this course is on means for improving the teaching of mathematics in the elementary school for all learners. Particular attention will be given to the implementation of the National Council of Teachers of Mathematics’ Principles and Standards for School Mathematics. In addition, there will be an emphasis on developmental approach to mathematics learning, teaching, and assessment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 605. Teaching Elementary School Science  3 Units
Prerequisite(s): EDTP 602, ECPY 607 and EDTP 501.
Description: Examines the instructional methods and curricular materials appropriate for teaching the concepts and skills of science in grades P-5.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 606. P-5 Social Studies Methods  3 Units
Prerequisite(s): EDTP 602, ECPY 607 and EDTP 501.
Description: Examines specific strategies and practices for teaching social studies to all children in grades P-5.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 607. Middle School Language Arts Methods  3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching middle school Language Arts effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 608. Middle School Math Methods  3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching middle school Mathematics effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 609. Middle School Science Methods  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching middle school science effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 610. Middle School Social Studies Methods  3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching middle school Social Studies effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 611. Music Student Teaching: Elementary/Secondary II  4 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 612. Student Teaching: P-12  6 Units
Prerequisite(s): Admission to the Teacher Education Program; Approval of Middle/Secondary Program.
Description: Fifteen weeks of supervised observation, participation and teaching in P-12 schools.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 613. Art Student Teaching in the Elementary/Secondary Schools II  4 Units
Description: Provides supervised observation, participation and teaching.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDTP 614. Student Teaching: Interdisciplinary Early Childhood Education 3 Units
Prerequisite(s): Passing mid-program assessment of MAT IECE teacher certification program.
Description: Supervised observation, participation, and teaching full-time in a pre-school setting for a minimum of seven weeks. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 615. Student Teaching in the Elementary Grades (Primary) 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): Passing mid-program assessment of teacher certification program.
Description: Supervised observation, participation, and co-teaching in elementary schools, with a placement in primary through grade 3. Regulation requires a minimum of 35 days. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 616. Student Teaching in Elementary Grades (Intermediate) 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Prerequisite(s): Passing mid-program assessment of teacher certification program.
Description: Supervised observation, participation, and co-teaching in elementary schools, with a placement in grade 4 or grade 5. Regulation requires a minimum of 35 full days. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 617. Student Teaching: Middle School 6 Units
Prerequisite(s): Admission to the Teacher Education Program; Approval of Middle/Secondary Program.
Description: Fifteen weeks of supervised observation, participation, and teaching in middle schools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 618. Student Teaching: Middle and High School 6 Units
Prerequisite(s): Admitted to the Teacher Education Program; Approval of Middle/Secondary Program.
Description: Fifteen weeks of supervised observation, participation, and teaching in middle and high schools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 619. Student Teaching: High School 6 Units
Prerequisite(s): Admitted to the Teacher Education Program; Approval of Middle/Secondary Program.
Description: Fifteen weeks of supervised observation, participation, and teaching in high schools. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 620. Reading and Writing Across the Curriculum 3 Units
Description: Exploring the processes, products and values of literacy in various areas of the curriculum, this course explores and applies literature of all forms in service to the various disciplines and societal roles. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 621. Intensive Field Experience 1-6 Units
Grading Basis: Pass/Fail
Prerequisite(s): EDTP 603 (or concurrent), EDTP 604 (or concurrent), EDTP 605 (or concurrent), or EDTP 606 (or concurrent).
Description: Field experience observing, analyzing, participating, and teaching in schools. Students will connect coursework, theory, and practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 622. High School English Methods 3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teach high school English effectively. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 623. High School Mathematics Methods 3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching high school Mathematics effectively. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 624. High School Science Methods 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching high school Science effectively. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 625. High School Social Studies Methods 3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program.
Description: Application of methods and materials to teaching high school Social Studies effectively. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 626. Pre-Student Teaching: Orientation 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 627. Practicum for Alternative Certification Program 1.5 Units
Term Typically Offered: Fall, Spring
Description: This course meets off campus and consists of mentoring and supervision by a University mentor. The program coordinator oversees the practicum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDTP 628. Business/Marketing Methods, 5-12  3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program. Application of methods and materials to teaching middle & high school Business/Marketing effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 629. World Language Methods, P-12  3 Units
Prerequisite(s): Must be admitted to the Teacher Education Program. Application of methods and materials to teaching World Languages effectively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 630. Building Learning Communities  4 Units
Description: Philosophies and methods for creating and managing learning communities supportive of the intellectual, academic, social-emotional, and physical needs of diverse students in classroom and preschool settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 631. Integrated Teaching and Learning I  3 Units
Description: Provides an introduction to the social and cultural aspects of teaching, instructional planning, KERA and content expectations, classroom management, adolescent development, culture, learning theories, policies, resources, ethics, legal expectations, and special education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 632. Integrated Teaching and Learning II  3 Units
Prerequisite(s): EDTP 631.
Description: Continuation of general methods, classroom management, applied historical and social foundations; exploration of developmental theory and implications for learning and teaching, grouping, cooperative learning, technology, multiple intelligences, differentiated instruction, reflective problem solving, high incidence disabilities, and leadership.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 633. Integrated Teaching and Learning III  3 Units
Prerequisite(s): EDTP 632.
Description: Explores personal philosophy of teaching and learning, key issues in education, issues of race, ethnicity, and gender in school and society, community and parental role, ethnographic observation, low incidence disabilities, technology applications and professional development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 635. Administration and Consultations: Day Care and Early Childhood Education  3 Units
Description: This course will explore the responsibilities of the day care or early childhood program director and the early childhood consultant.
Note: Cross-listed with EDTP 435.

EDTP 637. Mathematics and Science Methods, Integrated Early Childhood Education  4 Units
Prerequisite(s): Graduate status; EDTP 527; Admission to IECE MAT Program.
Description: Research-based approaches to planning and implementing developmentally appropriate standards-based classroom activities, lessons, and materials that develop mathematics and science understandings in young children birth through age five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 638. Literacy and Social Studies Methods in Interdisciplinary Childhood Education  3 Units
Description: Research-based approaches to planning and implementing developmentally appropriate standards-based classroom activities, lessons, and materials that develop literacy and social studies understandings in young children birth through age five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 639. Interdisciplinary Seminar in Early Childhood  3 Units
Description: An interdisciplinary seminar focusing on a variety of topics and issues relevant to early childhood.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 641. Interdisciplinary Content Methods in Early Childhood Education  3 Units
Description: Research-based approaches to planning and implementing developmentally appropriate standard-based classroom activities, lessons, and materials that develop literacy, mathematics, science and social studies understandings in young children birth through age five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDTP 647. Teaching Mathematics to Students with Disabilities  3 Units
Prerequisite(s): Admission to a Special Education Teacher Certification program.
Description: Successful performance on the Mathematics Qualifying Assessment Test or C+ or higher on either MATH 151 or MATH 152.
Note: Cross-listed with EDSP 647.

EDTP 648. Seminar in Reading Research  3 Units
Prerequisite(s): Graduates, EDTP 527; Admission to IECE MAT Program.
Description: Development and application of research-based reading instructional planning and implementation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Education: Special Education (EDSP)

EDSP 512. Methods for Students with Learning and Behavior Disorders  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Admission to Teacher Education.  
Description: Provides an overview of instructional methodology used to teach students with Learning and Behavior Disorders. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 516. Assessment Procedures for Students with Learning & Behavior Disorders  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Admission to Teacher Education.  
Description: Analyzes and evaluates the assessment procedures for children with learning disabilities in academic and social settings. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 677. Capstone Seminar: Initial Certification  
Prerequisite(s): EDTP 607, EDTP 608, EDTP 609, EDTP 610, EDTP 622, EDTP 623, EDTP 624, EDTP 625, EDTP 628, or EDTP 629; EDTP 612 (or concurrent), EDTP 617 (or concurrent), EDTP 618 (or concurrent), or EDTP 619 (or concurrent).  
Description: Analysis, synthesis, and evaluation skills applied to the student teaching experience; collaborative problem solving; action research in classrooms. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 678. Supporting the Second Year Alternative Certification Teacher I  
Term Typically Offered: Fall Only  
Prerequisite(s): Successful completion of year one of the Alternative Certification Program.  
Description: This seminar provides 2nd year alternative certification teacher candidates extended knowledge of current practice in selected areas, such as the Learner and Learning, Instructional Practices, Content and Professional Responsibility. For class offerings for a specific term, refer to the Schedule of Classes.

EDTP 679. Supporting the Second Year Alternative Certification Teacher II  
Term Typically Offered: Spring Only  
Prerequisite(s): EDTP 678.  
Description: This seminar provides 2nd year alternative certification teacher candidates extended knowledge of current practice in selected areas, such as the Learner and Learning, Instructional Practices, Content and Professional Responsibility. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 518. Teaching Reading Special Education P-12  
Term Typically Offered: Spring Only  
Description: Addresses curriculum/instructional methods in teaching reading to students with disabilities. Prepares candidates in theoretically sound reading instruction, reading processes and how to access, evaluate and respond to students’ strengths/needs. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 520. Assessment of Students with Moderate/Severe Disabilities  
Term Typically Offered: Occasionally Offered  
Description: Addresses knowledge and skills needed to conduct assessment procedures, interpret data and use assessment data in educational decision-making for students with moderate/severe disabilities in a legal and ethical manner. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 533. Curriculum and Methods for Early Childhood Special Education  
Term Typically Offered: Spring Only  
Prerequisite(s): Admission to Teacher Education.  
Description: Exploration of curricular approaches and teaching strategies appropriate for young children with special needs. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 537. Language Learning for Exceptional Children  
Description: Delineates and describes language learning patterns commonly found in relation to specific impairing conditions. Emphasizes specific language learning methods and materials appropriate for these problems. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 540. Introduction to Exceptional Children  
Description: A survey course designed to acquaint students with all types of exceptional children - physically and mentally handicapped, socially and emotionally disturbed, and the gifted; methods of adapting education to meet the needs of these children. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 541. Introduction to Learning and Behavior Disorders  
Description: An integration of theoretical, conceptual, and applied educational systems for children with learning and behavior disorders. For class offerings for a specific term, refer to the Schedule of Classes.

EDSP 545. Exceptional Children in the Regular Classroom  
Term Typically Offered: Occasionally Offered  
Description: Educational programming for exceptional children in regular classrooms; curricular approaches in mainstreaming. For class offerings for a specific term, refer to the Schedule of Classes.
EDSP 546. Behavior Analytic Approach to Communication 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): EDSP 260 for undergrads or EDSP 644 for graduates.
Description: This course prepares practitioners to use principles of ABA to assess and teach communication skills to individuals with disabilities and develop knowledge of current AAC technology and assessment procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 570. Autism: Introduction and Understanding 3 Units
Description: Increase understanding of individuals with Autism/Pervasive Developmental Disorder (PDD) across the life-span. Characteristics of this population, namely communication, social and behavioral attributes will be examined as they are manifested across all ages in the context of the family and community. Historical, diagnostic, and identification issues will be addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 578. Practicum in Teaching the Trainable Mentally Retarded 4 Units
Description: Supervised student teaching of trainable mentally retarded children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 581. Introduction to Gifted Education 3 Units
Description: Classroom- and school-level approaches to identifying, nurturing, and further developing a variety of talents in all children, including but not limited to the areas of intellectual, academic, creative, visual/performing arts, and leadership talent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 594. Foundational Concepts in Intellectual and Physical Disability 3 Units
Term Typically Offered: Occasionally Offered
Description: This course provides an overview of characteristics associated with intellectual and physical disabilities. Students will learn to establish support systems for addressing the educational and health needs of these learners.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 596. Seminar in Special Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 597. Seminar in Special Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 597. Seminar in Special Education 1-4 Units
Description: The investigation of special problems in education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 607. Student Teaching; Learning and Behavior Disorders 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Undertaken after all program requirements have been met.
Description: Provides supervised teaching experience with students demonstrating learning and behavior disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 608. Student Teaching: Moderate and Severe Disabilities 3 Units
Prerequisite(s): Undertaken after all program requirements have been met.
Description: Provides supervised teaching experience with students demonstrating moderate, severe, or multiple disabilities as well as other health impairments.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 609. Moderate/Severe Disabilities Curriculum and Methods I 3 Units
Prerequisite(s): EDSP 644.
Description: Design and implementation of curriculum for students with moderate/severe disabilities through individual and group instructional plans using a variety of systematic instruction procedures to teach discrete and chained tasks/behaviors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 611. Moderate/Severe Disabilities Curriculum and Methods II 3 Units
Prerequisite(s): EDSP 609.
Description: Design and implementation of instruction based on alternate achievement of grade level academic standards that meet the needs of students with moderate/severe disabilities within special education and collaborative classroom settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 612. Learning and Behavior Disorders Curriculum, Methods, and Assessment I 3 Units
Description: Introduces basic concepts in special education assessment; provides an overview of instructional methodology used in teaching students with disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 613. Curriculum Methods and Assessment: Field Component I 3 Units
Description: A variety of standardized and criterion referenced tests will be examined. Their role in assessing intellectual ability, academic performance, social, and emotional skills will be presented. Functional assessment will also be explored. In addition, curriculum and teaching strategies for students with learning and behavior disorders will be addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 614. Transition Programs and Services for Children and Youth With Disabilities 3 Units
Description: Addresses the needs of personnel working with secondary special education students making the transition from school to adulthood. Provides information on the basic adult needs of persons with developmental disabilities, an interdisciplinary service model to meet those needs, and systematic planning and coordination of services that are required for persons with disabilities to achieve maximum quality of life.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 615. The Normalization Principle in Human Service Systems 3 Units
Description: Analyzes normalization principle in relation to education and other human service systems. Emphasizes evaluation of educational, residential, and community services for mentally retarded and other exceptional individuals.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 616. Learning and Behavior Disorders Curriculum, Methods, and Assessment II 3 Units
Prerequisite(s): EDSP 612.
Description: Focuses on instructional methods, materials, and assessment in the areas of literacy, math, social skills, and content areas for students with learning and behavior disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 617. Practicum in Learning and Behavior Disorders 3 Units
Description: Instructional methods, techniques, and materials will be examined. Students work directly with children and adolescents with learning and behavior disorders in order to gain an understanding of these youngsters, and evaluate their own qualifications for working with them.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 618. Instructional Technology for Students With Special Needs 3 Units
Description: Designed to provide information about the use of instructional technology for students with learning disabilities. Lectures, video presentations, and required readings will be combined to provide a basic foundation of skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 627. Applications of Assistive Technology 3 Units
Description: Designed to provide professionals information about the latest advances in assistive technology for students with learning, visual, hearing and multiple disabilities. Provided on the web. CyberLessons are provided as well as CD supplemental materials, demonstrations, and required readings will be combined to provide a basic foundation of skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 632. Universal Design for Learning Using Technology 3 Units
Description: Explores methods and organizational approaches for employing assistive and educational technology in general education curriculum. Study of educational, practices, Universal Design for Learning principles and inclusion alternatives.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 635. Moderate and Severe Disabilities Practicum 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): EDSP 609 and EDSP 611.
Description: A field-based developing-teacher experience that provides active classroom involvement with students diagnosed with moderate, severe, or multiple disabilities while under the supervision of trained educators and University faculty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 637. Transdisciplinary Collaboration for Inclusion 3 Units
Description: Designed for teaching children with disabilities in the inclusive general education classroom. The course provides strategies for curriculum development, instructional modifications and student accommodations focusing on teachers working as members of a team within the framework of general curricula and classrooms. This is a distance education course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 638. Educational Management of Health, Physical and Multiple Disabilities 3 Units
Prerequisite(s): EDSP 540 and EDSP 634.
Description: Addresses a broad range of issues of importance to the health and physical problems of students with multiple disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 639. Education Research in P-12 Setting 3 Units
Description: Analysis of research in special education relative to methodology and current research efforts in the field. Consideration given to understanding research design and the reading of research studies.
Note: Cross-listed with EDAP 639.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 641. Curriculum Methods in Special Education 3 Units
Description: Analyzes the subject areas, approaches, techniques, materials, and learning principles used in teaching children in special education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 642. Assessment Procedures for Learning and Behavior Disorders 3 Units
Prerequisite(s): EDSP 540 or survey course in special education.
Description: Analyzes and evaluates the assessment procedures for children with learning disorders in the academic and social behavior areas.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 643. Instructional Procedures for Learning and Behavior Disorders 3 Units
Prerequisite(s): EDSP 540 or survey course in special education.
Description: Applies assessment, planning, instructional, and evaluation techniques to cases of specific learning disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 644. Applied Behavior Analysis 3 Units
Description: Students explore the principles and procedures in the field of applied behavior analysis. Observational methods, single subject designs, and behavior promotion, reduction, and generalization strategies are reviewed in relation to the needs of students with disabilities. Participants are required to develop individual project proposals that demonstrate their ability to design, implement, and evaluate behavioral programs in an effective and ethically responsive manner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 645. Learning and Behavior Disorders Practicum 3 Units
Prerequisite(s): EDSP 512 and EDSP 516.
Description: Field experience in school settings where the student will observe, assist, assess, and instruct students with learning and behavioral disorders.
Note: Taken within the last 9 hours of coursework.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 647. Teaching Mathematics to Students with Disabilities 3 Units
Prerequisite(s): Admission to a Special Education Teacher Certification program.
Description: Successful performance on the Mathematics Qualifying Assessment Test or C+ or higher on MATH 151 or MATH 152.
Note: Cross-listed with EDTP 647.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 650. Advanced Applied Behavior Analysis 3 Units
Prerequisite(s): EDSP 644 and EDSP 671.
Description: The content in this course addresses advanced principles of applied behavior analysis and their application within various applied contexts. Students will conduct behavior change projects and analyze their effectiveness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 651. Professional and Ethical Practice of Applied Behavior Analysis 3 Units
Prerequisite(s): EDSP 650 and EDSP 671.
Description: This course is designed to address behavioral consultation across settings. Particular emphasis will be placed on professional ethics as well as the skills necessary for successful consultation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 652. Academic and Behavior Response to Intervention 3 Units
Description: This course will teach students to design, work within, and evaluate academic and behavior systems across the entire school to prevent student failures in both the academic and behavior realms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 653. Practicum in Autism and Applied Behavior Analysis 3 Units
Prerequisite(s): EDSP 644, EDSP 646, EDSP 671, EDSP 650, and EDSP 651.
Description: This course is designed to guide students in the application of behavior analysis with students on the autism spectrum. Students will identify learning needs, develop instructional objectives, select and use behavioral measures, collect and analyze data, implement behavior change methods, design behavioral instructional plans, apply reinforcement-based change procedures and adhere to established ethical standards.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 654. Radical Behaviorism 3 Units
Description: This course will address the philosophical assumptions and theories that inform the science of behavior, specifically as they relate to the writings of B.F. Skinner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 660. Assistive Technology: Introduction and Software Applications for Young Children 3 Units
Description: Provide educators with the awareness of the range of available Assistive Technology (AT) options and knowledge of software to enhance learning experiences for students with disabilities. Participants will investigate the use of Assistive Technology as it relates to life skills such as communication, mobility, education, recreation, vocation, independence, and therapy/rehabilitation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 661. Assistive Technology: Assessment Data Collection and Decision-Making 3 Units
Description: Participants in this course gain an understanding of the importance of the assessment process in determining appropriate assistive technology solutions. Legal issues associated with assessment, theories that drive data gathering, data gathering instruments and procedures, administrative responsibilities, team assessments, and caregiver involvement are a few of the topics addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 662. Assistive Technology: Funding and Family Involvement 3 Units
Description: This course emphasizes the need for family participation in the selection, acquisition and implementation of assistive technology. The variety of funding sources and other related alternatives available to assist consumers in purchasing assistive technology services, software, and devices are also explored.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 663. Low Tech Assistive Technologies 3 Units
Description: This course will familiarize participants with a wide variety of assistive technology options that are both simple to use and inexpensive in relation to a broad range of potential applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 664. Assistive Technology: Computer Access and Switches and Toys 3 Units
Description: This course addresses a variety of computer access methods including speech synthesis, touchscreens, expanded keyboards and other interface alternatives as well as the construction and repair of switches, toys and other such devices that play important roles in the daily lives of individuals with disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 665. Assistive Technology: Multimedia and the Classroom Integration 3 Units
Description: The purpose of this course is to develop the knowledge and skills necessary to identify, implement, and subsequently adjust, comprehensive teaching methods for students with different learning styles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 667. Assistive Technology: Processes and Procedures 3 Units
Description: The purpose of this course is to provide professionals with the core knowledge necessary to make informed decisions regarding assistive technology for the individuals they serve.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 668. Assistive Technology Seminar 3 Units
Description: Students will have hands-on experience with assistive technology devices in a lab setting and web-assisted manner. Students will develop lesson plans and curriculum materials for students with disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 669. Single Subject Research Methods and Designs 3 Units
Prerequisite(s): EDSP 644.
Description: Students will learn principles and methods of designing single subject research in educational settings and are required to design and defend a research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 670. Research Seminar in Autism Spectrum Disorders 3 Units
Description: Study and application of principles appropriate for the education and management of behavior disorder children in the regular classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 671. Autism: Strategies and Techniques 3 Units
Prerequisite(s): EDSP 570.
Description: Course participants will examine instructional approaches used with students with autism. Emphasis is placed on research based strategies that have utility in facilitating increases in communication, social, and academic skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 672. Autism: Collaboration and Technology 3 Units
Description: Prepare students to develop augmentative/alternative communication systems for individuals with autism. Students will create technology based communication systems with an emphasis on Board/Maker and Overlay Maker. Follow up sessions will be devoted to discussing strategies of implementation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 673. Research Seminar in Autism Spectrum Disorders 3 Units
Prerequisite(s): EDSP 570 or EDSP 670, and EDSP 671.
Description: In this research seminar, course participants examine a variety of current issues related to individuals with autism spectrum disorders. Particular emphasis will be placed on early intervention, comprehensive treatment models and meeting the support needs of adolescents and adults.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 674. Theories of Behavior Disorders 3 Units
Description: Psychological, sociological, and physiological theories of behavior disorders. Emphasis on resulting educational problems. Observation and participation in cooperating facilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 675. Characteristics, Needs, and Respones to Students with EBD 3 Units
Description: Study and application of principles appropriate for the education and management of behavior disorder children in the regular classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 676. Educational Planning for the Behavior Disorder Child 3 Units
Description: Study and application of principles appropriate for the education and management of behavior disorder children in resource room or special classes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 677. Practicum: Education of the Behavior Disorder Child 3-4 Units
Prerequisite(s): EDSP 676.
Description: Supervised practicum during which the individual is responsible for the management and instruction of behavior disorder children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 681. Early Childhood Education of Exceptional Children 3 Units
Description: Surveys current education and care of exceptional infants and preschool children; including assessment, methods of treatment, and mainstreaming.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 683. Early Childhood Special Education Assessment 3 Units
Prerequisite(s): Admission to Teacher Education.
Description: Identification and assessment of children with special needs, ages birth to five.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 684. Early Family Intervention for Preschool Disabilities 3 Units
Description: Focuses on relevant issues in the provision of services to preschool children with disabilities through family intervention strategies and methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 686. Programs and Services for Preschool Children With Disabilities 3 Units
Description: Provides an overview of the types of delivery systems addressed in working with preschool children with disabilities and their families.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 687. Practicum/Action Research 6 Units
Description: Preparation of teachers in the development, implementation and evaluation of preschool programs for children with disabilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 688. Diverse Populations of Gifted Students 3 Units
Prerequisite(s): EDSP 581.
Description: Creating a learning environment conducive to meeting the needs of gifted and talented students based on culture, social interaction, skill, knowledge, and interests.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 689. Curriculum and Instruction for Gifted/Talented Students 3 Units
Prerequisite(s): EDSP 581.
Description: Curriculum materials and programs, instructional and differentiation strategies, and process skills (creativity, critical thinking, etc) appropriate for teaching gifted/talented students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 690. Practicum in Gifted Education 3 Units
Prerequisite(s): EDSP 581, EDSP 688, and EDSP 689.
Description: Application of knowledge, skills, and competencies delineated in the basic courses in gifted/talented education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 693. Consulting with Parents and Teachers of Exceptional Children 3 Units
Description: Course designed to provide a background in theories and techniques of consulting and advising and to provide experiential opportunities for observing and participating in consulting and advising sessions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 695. Teleteaching and Distance Education 3 Units
Prerequisite(s): Basic computer proficiency.
Description: Provides hands-on experiences developing and using technology to teach distant learners. Principles and applications of design, development and delivery of instruction using video, audio and computer communications for two-way interactive video.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 696. Independent Study in Special Education 1-3 Units
Description: By arrangement with advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 697. Topical Seminar 1-4 Units
Description: Intensive study of topics indicated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 698. Supervised Readings 1-3 Units
Description: By arrangement with advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 699. Thesis or Professional Paper 2-5 Units
Prerequisite(s): Consent of advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 710. Professional Seminar in Special Education 3 Units
Prerequisite(s): Admission to doctoral program.
Description: Considers contemporary issues and research in special education. Students are expected to analyze and synthesize information relevant to the field of special education and present it in a series of topical written essays and class presentations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 712. Practicum in Special Education Consultation 3-6 Units
Description: Supervised practicum during which the learner has responsibility for consulting with teachers of exceptional learners regarding special educational problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EDSP 720. Historical and Philosophical Bases of Special Education 3 Units
Prerequisite(s): Education major and consent of instructor.
Description: The content of this course will include the history and philosophical background of the development of special education. It will include a comparative review of special education in various countries and general direction of current international trends and developments in the field by educators of international prominence. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 795. Doctoral Research 1-15 Units
Prerequisite(s): Passing PhD Comprehensive Examination and admission to candidacy for the Doctoral Degree.
Description: Research for the doctoral degree/dissertation. Note: Cross-listed with ECPY 795.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 796. Research Literature in Special Education 1-6 Units
Description: For EdS or PhD candidates only. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 798. Internship/Field Experience in Special Education 3 Units
Description: For PhD candidates only. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EDSP 799. Professional Paper 1-6 Units
Description: For EdS or PhD candidates only. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Educational and Counseling Psychology (ECPY)

ECPY 501. Independent Study in Educational Psychology 1-3 Units
Prerequisite(s): To be arranged with the dean.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 502. Independent Study in Educational Psychology 1-3 Units
Prerequisite(s): To be arranged with the dean.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 507. Learning Theory and Human Growth and Development 3 Units
Description: Basic principles of learning theory and human development. Included are the major theories of learning including behaviorism, cognitive, and cultural historical activity theory along with physical, social, cognitive, emotional, language, and cultural development as they apply to children and youth including those with special needs. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 511. Learning and Cognition in Education 3 Units
Prerequisite(s): Consent of instructor.
Description: A survey of major theoretical models in the area of cognition and learning. Emphasis upon applications of theory in the classroom and in counseling. Implications are drawn from several models and contrasted in the context of the individual student’s readiness, motivation and aptitude. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 513. Individual Differences in Education 3 Units
Prerequisite(s): Consent of instructor.
Description: A survey of individual differences in socio-cognitive and personality areas of development based upon current literature. Ways to meet individual and group needs in educational settings; interpretation of individual differences for effective classroom instruction. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 525. Topical Studies in Educational Psychology I 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Investigation of current concerns and issues in educational psychology. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 526. Topical Studies in Educational Psychology II 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Investigation of current concerns and issues in educational psychology. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 527. Workshop in Educational Psychology I 1-4 Units
Prerequisite(s): Consent of instructor.
Description: Topical workshop on educational psychology concerns. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 528. Workshop in Educational Psychology II 1-4 Units
Prerequisite(s): Consent of instructor.
Description: Topical workshop on educational psychology concerns. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 540. Evaluation and Measurement in Education  
**Description:** Intended to acquaint the student with evaluation and measurement in education and counseling. Content will include reliability, validity, test construction, and methods of evaluation and testing in various settings. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 559. Seminar in Guidance  
**Prerequisite(s):** Majors are urged to take seminars prior to or concurrent with practicum. 
**Description:** The investigation of special problems in counseling. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 560. Introduction to Counseling and Psychotherapy  
**Description:** Introduction to the field of counseling and psychotherapy. Course includes an introduction to the field in general including ethics, professional issues, service settings, and areas of specialization. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 561. Learning Systems: Theory and Practice  
**Description:** Theories, principles and research of learning are introduced. The application of learning and behavioral constructs in classroom and counseling settings are contrasted with one’s readiness, motivation, and aptitude for learning. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 562. Classroom-Based Guidance/Counseling  
**Description:** An introductory survey of counseling principles, procedures, functions, and techniques, with emphasis on classroom application. To be given in the interdisciplinary context of an effective program. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 563. Helping Skills for Student Affairs Professionals  
**Prerequisite(s):** ECPY 660. 
**Description:** Introduction /overview of individual/group counseling techniques with focus on knowledge and helping skills applicable for use by practitioners non-therapeutic, higher education settings. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 564. Foundations of School Counseling  
**Prerequisite(s):** ECPY 521. 
**Description:** Organization, administration, and program development in the educational environment. Patterns for implementation of the services of counseling, testing, consultation, information and placement. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 565. Elementary School Counseling  
**Prerequisite(s):** ECPY 512 and ECPY 521. 
**Description:** Organizational overview of elementary school counseling: career development in middle childhood; the role and function of the elementary school counselor. Study and application of counseling and consulting techniques appropriate to the elementary school setting. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 626. Consultation  
**Description:** Introduction to theory, research and practice in the techniques of educational and psychological consultation with both individuals and organizations.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 627. Leadership & Professional Orientation in School Counseling  
**Description:** Prepares school counselors for leadership within the school and professional community, focused on student learning and student well being.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 628. Theories and Techniques of Counseling Children  
**Prerequisite(s):** ECPY 651.  
**Description:** Intensive study of counseling theories and techniques with children. Prepares students for counseling practice with children.  
**Note:** Non-majors must have consent of instructor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 629. Theories and Techniques of Counseling and Psychotherapy  
**Prerequisite(s):** ECPY 600 or ECPY 660.  
**Description:** Focuses on methods and techniques of counseling. Theory and research will be studied including training in current professional practice and empirically supported approaches to therapy with an emphasis on cognitive, behavioral and affective theory.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 630. Theories and Techniques of School Counseling  
**Description:** Intensive study of counseling theories and techniques with children and adolescents in a school setting  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 631. Adolescence  
**Prerequisite(s):** ECPY 305 or PSYC 201.  
**Description:** Examination of current socio-psychological research on developmental patterns associated with puberty, identity, cognition, and socio-emotional growth. Analysis of various theoretical models.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 632. Clinical Art Therapy I: Theories  
**Prerequisite(s):** Admission to the program.  
**Description:** Overview of history and theoretical approaches in art therapy. Emphasis on the ETC, MDV, defense mechanisms, graphic development, and life span clinical issues as they interface with managed care and performance indicators. Cultural issues related to the clinical context will be explored.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 633. Clinical Art Therapy II: Assessment and Practice  
**Prerequisite(s):** Admission to the program.  
**Description:** Fundamentals of graphic analysis, the indicators of various psychopathologies, and the application of interventions in treatment (according to DSM IV). Practice in interpretation of drawings and case discussion.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 634. Family Systems Process  
**Prerequisite(s):** Permission of major advisor.  
**Description:** Content will cover family life cycle development, healthy family functioning, life cycle issues of the divorced and blended family and an introduction to assessment indicators.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 635. Family Assessment Concepts  
**Description:** Focuses on theoretical concepts from the major theories of family systems therapy with an emphasis on assessment and treatment planning. Therapist skills in assessment interviewing will be discussed and simulated.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 636. Family Assessment Practice  
**Description:** Provides clinical supervision of family assessment and consultation skills for practicum based students. Emphasis placed on engagement and problem identification.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 637. Expressive Techniques in Psychotherapy  
**Prerequisite(s):** Consent of instructor.  
**Description:** Teaches theory and techniques from various expressive modalities including relaxation, guided imagery, play, dance/movement, focusing, music drama, poetry, contour drawing, and problem-focused art therapy.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 638. Group Art Therapy Techniques  
**Prerequisite(s):** Consent of instructor.  
**Description:** Foundations in group dynamics and group therapy through expressive art techniques; experiential therapy basis will be used.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 639. Prevention & Treatment of Substance Abuse  
**Prerequisite(s):** Admission to School of Interdisciplinary and Graduate Studies.  
**Description:** The course provides an overview of the prevention and treatment of substance abuse in youth and adults for mental health professionals.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 640. Assessment Methods for Counselors 3 Units
Prerequisite(s): ECPY 540.
Description: The course covers methods of data collection, standardized assessment instruments used in the practice of mental health counseling, and interpretation of assessment data. The ethical issues of testing are included.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 641. Applied Methods in Art Therapy 3 Units
Prerequisite(s): Admission to the program.
Description: Studio-lab in the practical application of expressive and therapeutic techniques, role playing, and symbolic awareness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 642. Symbols of Self-Actualization 3 Units
Prerequisite(s): Consent of instructor.
Description: Study of symbols encountered in the development of self in art, mythology, and psychology. Emphasis on archetypal ego symbolism and symbols of transformation and their exploration through art expression.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 643. Field Studies in Art Therapy 3 Units
Prerequisite(s): Admission to the program.
Description: Provides students with opportunities to visit and evaluate practicum sites. Students will analyze skills necessary for art therapy field work at various practicum sites, and will assess their interests and skill level for various practicum opportunities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 645. Gender, Sexuality and Sexual Abuse Issues in Therapy 3 Units
Prerequisite(s): Consent of instructor.
Description: Gender, sexuality, and sexual abuse issues are presented from the viewpoint of consumers' mental health treatment. Emphasis placed on understanding the contribution of environment and individual experience to current mental health functioning, proper methods of intervention and the process of change. A systems/developmental approach is employed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 648. Psychological Assessment I 3 Units
Prerequisite(s): ECPY 540.
Description: The first of a two-course sequence, ECPY 648 and ECPY 649, that explores theory and applications of individual psychological assessment. Explores the theory of intelligence, neuro-psychological assessment, abilities measures, the ethical, professional, and legal issues of testing in different settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 649. Psychological Assessment II 3 Units
Prerequisite(s): ECPY 648.
Description: The second of a course sequence that explores theory and applications of individual psychological assessment. Explores theory and application of tests and social-emotional functioning, development, personality assessment, the ethical, professional, and legal issues of testing in different settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 650. Group Process and Practice 3 Units
Description: Study of group processes and procedures which are applicable to counseling. Method of instruction is lecture and participation in a group.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 651. Group Procedures With Children 3 Units
Prerequisite(s): Admission to graduate counselor education or consent of instructor.
Description: Process and practice of group guidance and group counseling with children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 652. Multicultural Practicum in Art Therapy 1-3 Units
Prerequisite(s): ECPY 655.
Description: Students participate in a study abroad service learning travel experience in which they design and implement a summer intensive program for children with multiple disabilities outside of mainland United States. The students are responsible for adapting the activities, art materials, and environment to meet the needs of the participants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 653. Grief and Medical Counseling in Art Therapy 3 Units
Description: Provide students with familiarity with utilizing art therapy with grieving and medical populations. Purpose of the course is to provide an overview of the current use of art therapy with grief issues and medical populations as well as to review current theoretical models of treatment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 654. Group Procedures in School Counseling 3 Units
Description: Prepares school counselors to develop, conduct, and evaluate group and classroom guidance programs appropriate in P-12 school settings
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 655. Art for Children with Special Needs 3 Units
Description: Focuses on children's emotional needs and the role expressive experiences play in meeting these emotional needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 660. Introduction to Student Personnel Work  
**Description:** A general introduction to the historical, organizational, administrative, and practical areas of student personnel work in higher education. Bases for these areas will be discussed, with the goals and objectives of student personnel work in view. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 661. Theories of College Student Development  
**Description:** Examines and explores the major theories of student development. Discussion will be centered on the application of theories to the different types of student groups found on college campuses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 662. Student Affairs Programs, Policies, and Practices  
**Prerequisite(s):** ECPY 660.  
**Description:** Review of functions of student affairs areas in higher education, how they are administered and what is considered good practice in those areas. Includes housing, counseling center, career planning, financial aid, admission, registration, student activities, student unions, student health and other selected areas. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 663. Multicultural and Diversity Issues  
**Description:** Emphasis will be placed on developing effective communication skills in multicultural settings. Focus will also be directed toward various cultural and ethnic groups. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 664. College Student Sub-Cultures  
**Description:** Overview of various student sub-cultures and professional approaches to development of the students within each culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 670. Career Counseling  
**Description:** The study of career development across the life span. Includes a study of the methods and techniques used for assisting career and lifestyle choices. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 671. Psychology of Career Development  
**Prerequisite(s):** ECPY 570 or ECPY 670.  
**Description:** Advanced study of current research and theories of career counseling and career-related assessment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 672. Practicum in Clinical Mental Heath Counseling  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** ECPY 619, ECPY 629, and ECPY 730.  
**Description:** Students will develop their skills as a counselor through experience acquired under the supervision of an approved licensed practitioner and weekly meetings with department faculty. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 673. Practicum in Counseling Psychology  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** ECPY 619, ECPY 629, and ECPY 730.  
**Description:** Students will develop their skills as a counseling psychologist through experience acquired under the supervision of a licensed psychologist and weekly meetings with department faculty. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 674. Practicum in School Counseling  
**Prerequisite(s):** ECPY 619, ECPY 624, ECPY 630, ECPY 650, and ECPY 730.  
**Description:** Provides experience in school counseling under the supervision of a certified School counselor. One hundred hours of service are required and can be achieved by serving 10 hours per week in the K-12 school setting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 675. Practicum in Art Therapy  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** ECPY 643.  
**Description:** Students will gain art therapy and counseling experience under the supervision of approved mental health professional. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 676. Practicum in Psychological Assessment  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** ECPY 648, ECPY 649, and ECPY 730.  
**Description:** Students will develop their assessment skills through experience acquired under the supervision of a licensed psychologist and weekly meetings with department faculty. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 680. Practicum in Psychological Assessment  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** ECPY 660.  
**Description:** The internship in student personnel is designed to provide students with the opportunity to integrate cognitive learning with practical experiences in the area of student personnel services. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 682. Internship in Clinical Mental Health Counseling  1-3 Units  
Grading Basis: Pass/Fail  
Prerequisite(s): ECPY 672.  
Description: Provides experience in mental health counseling under the direct supervision of a licensed mental health counselor at a field placement site approved by the ECPY department prior to enrollment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 683. Internship in Counseling Psychology  1-3 Units  
Grading Basis: Pass/Fail  
Prerequisite(s): ECPY 673 or ECPY 680.  
Description: Provides experience in applied counseling psychology under the direct supervision of a licensed psychologist. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 684. Internship in School Counseling  3 Units  
Prerequisite(s): ECPY 624 and ECPY 640.  
Description: Provides experience in school counseling under the supervision of a Certified School Counselor. Six hundred hours of service are required and can be achieved either in one semester by serving 40 hours per week in a K-12 school setting or over several semesters by serving at least 300 hours in a school setting and the remaining hours in a setting serving K-12 school-aged children. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 694. Graduate Seminar in Educational and Counseling Psychology  3 Units  
Prerequisite(s): Consent of instructor.  
Description: Covers current issues in counseling and psychology. Course may be repeated. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 695. Capstone Seminar in College Personnel Work  3 Units  
Prerequisite(s): 30 hours in master’s program.  
Description: Examines various topical areas in the field of student affairs in today’s university setting. Emphasis on synthesis of topical material covered in other courses in the curriculum. Primary focus will be the integration of the practical application in conjunction with developmental theory models. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 696. Independent Study in Guidance  1-3 Units  
Description: By arrangement with dean and advisor. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 697. Topical Seminar in College Student Personnel Services 3 Units  
Description: Selected topics such as legal problems, housing, and financial aid, determined by student needs and interests. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 698. Supervised Readings  1-3 Units  
Description: By arrangement with advisor and dean. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 699. Thesis or Professional Paper  3-6 Units  
Prerequisite(s): ELPF 660 or equivalent; consent of advisor. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 700. Supervised Research in Educational and Counseling Psychology  1-6 Units  
Prerequisite(s): Admission to doctoral study.  
Description: An intensive research apprenticeship with a faculty member. Students assist in formulating research hypotheses, articulating the research design, developing the research method, making arrangements to conduct the study, entering and analyzing the data, and writing up the findings for publication. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 701. Doctoral Professional Seminar in Educational Psychology, Measurement, and Evaluation  3 Units  
Prerequisite(s): Admission to doctoral study.  
Description: An orientation to doctoral work educational psychology and research, including professional strategies for success, skills, and cognitive orientations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 705. Adult Development Theories  3 Units  
Prerequisite(s): Consent of instructor.  
Description: A seminar examining physical, psychological, and social changes that occur during adulthood and how those changes affect learning. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 710. Social Ecology & Social Behavior  3 Units  
Prerequisite(s): Doctoral student status or permission of instructor.  
Description: The development of culture and the effects of social systems on individual and group behavior including the development and interaction of social systems with individual psychology, biological constraints on social behavior, and the effects of the interaction of different social systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

ECPY 711. Prevention of Mental Disorders: Theory, Research, and Practice  3 Units  
Prerequisite(s): ECPY 600.  
Description: The course addresses the prevention of mental disorders, and problem behaviors including facilitation of healthy psychological development of youth. The latest research, theory, and practice in prevention are examined. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECPY 712. Advanced Issues in Human Development 3 Units
Prerequisite(s): Admission to doctoral study.
Description: Conceptualizes development as result of bi-directional or multidirectional interactions between individual and environment. Emphasis placed on research informing practice and policy with children in home and school settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 720. Workshop in Counseling 1-6 Units
Description: An intensive examination of some specific current or continuing issue or practice in counseling. Review of literature, current field practice, and student participation are stressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 721. Advanced Counseling Seminar 1-8 Units
Prerequisite(s): Consent of instructor.
Description: The topic of this seminar will vary from semester to semester. Written notice of the topic will be given prior to its being offered. The topics will be determined by the instructor and will be of current interest in the field.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 722. Advanced Theories of Counseling and Psychotherapy 3 Units
Prerequisite(s): Master's degree in Guidance and Counseling or its equivalent and consent of instructor for non-majors.
Description: Covers advanced training in a specific area of counseling and psychotherapy. Topics will be determined by department faculty. Course may be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 730. Social, Legal & Ethical Issues in Counseling 3 Units
Description: Examination of current social developments that relate to counseling. Legal perspectives relevant to practice and principles of ethical practice in counseling.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 731. Counselor Education Seminar: Teaching and Ethics in Counselor Education 3 Units
Prerequisite(s): Admission to doctoral program.
Description: This course provides an introduction to teaching in counselor education programs. The course also addresses ethical, legal, and multicultural considerations in teaching in counselor education programs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 732. Counselor Education Seminar: Promoting Social Change-Leadership 3 Units
Prerequisite(s): Admission to doctoral program.
Description: Leadership and advocacy as roles of the counselor educator in behalf of the counseling profession and diverse client populations are explored.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 740. Psychometrics and Affective Instrument Development 3 Units
Prerequisite(s): Admission to doctoral program or permission of instructor and ELFH 701 or equivalent.
Description: This course is intended to further students' understanding of psychometrics, with a focus on developing and validating attitudes, evaluation, and other affective instruments. This course is intended to teach students to evaluate the psychometric properties of instruments and to develop and validate affective instruments. The course will cover item development, scaling procedures, content validity, unidimensionality, construct validity, "factorial" validity, internal consistency reliability, and brief exposure to generalizability theory and IRT. Students will learn how to conduct exploratory factor analyses, and reliability analyses. Students will create and pilot an affective instrument for the final project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 745. Systematic Reviewing and Meta-Analysis 3 Units
Prerequisite(s): Admission to doctoral study.
Description: Provides a general overview of all aspects of a scientific literature review, including formulating a problem, finding the relevant literature, coding studies, and meta-analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 746. Secondary Data Analysis 3 Units
Prerequisite(s): Admission to doctoral study; ELFH 701 or 703; ECPY 789.
Description: Practical and methodological issues in secondary data analysis, such as accessing, managing, and preparing data, applying quasi-experimental techniques to large data sets, sampling and weighting issues, and identifying limitations of research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 750. Group Counseling, Advanced Theory and Practice 3 Units
Prerequisite(s): ECPY 650, master's degree in counseling and consent of instructor for non-majors.
Description: An examination of research theory and relevant literature for application to counseling in groups. Experience and practice are an essential part of the course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 755. Counselor Supervision 3 Units
Prerequisite(s): MS in counseling or related field, or consent of instructor for non-majors.
Description: Theory, techniques and research in the area of counselor supervision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPY 761</td>
<td>Program Development &amp; Evaluation in Student Affairs</td>
<td>3</td>
<td>Consent of instructor</td>
<td>Methodologies of developing student affairs programs. Needs assessment through summative evaluations.</td>
<td>For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>ECPY 762</td>
<td>Training of College Student Personnel Paraprofessionals</td>
<td>3</td>
<td>ECPY 629, ECPY 650, and ELFH 682</td>
<td>Basic training program for paraprofessionals who work in such traditional settings as residence halls, tutorials, peer advisors and counselors, orientation leaders, other positions where students are providing direct service to other students. Includes experience in a supervised laboratory setting. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 763</td>
<td>Services for Adult and Commuting Students</td>
<td>3</td>
<td>ECPY 661</td>
<td>Examines the needs of adult and commuting students in post-secondary institutions, how those needs differ from those of residential students and address means of accommodating those needs. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 764</td>
<td>Structural Equation Modeling</td>
<td>3</td>
<td></td>
<td>This course focuses on basic concepts, applications, and interpretations of structural equation models. Students should have a thorough understanding of multiple regression analysis. Exposure to EFA and ANOVA is recommended. Note: Cross-listed with ELFH 764 and EDAP 764. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 765</td>
<td>Hierarchical Linear Modeling</td>
<td>3</td>
<td></td>
<td>This course focuses on the analysis and interpretation of organizational and longitudinal data using hierarchical linear modeling. Students taking this course should have a strong background in multiple regression. Note: Cross-listed with ELFH 765 and EDAP 765. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 775</td>
<td>Biological Bases of Behavior</td>
<td>3</td>
<td>ECPY 621 or consent of instructor</td>
<td>The study of biological bases for behavior including physiological and neurological structure, medical procedures, trauma, psychotropic and illicit and licit drugs. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 780</td>
<td>Advanced Practicum in Counseling</td>
<td>1-9</td>
<td>Master's degree or its equivalent in counseling or student personnel work, including a previous practicum; or consent of instructor for non-majors.</td>
<td>Student must make application for this course in advance of actual enrollment (e.g., a student wishing to take practicum during the summer should apply the preceding fall term). Supervised experience in counseling and/or student personnel work. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 781</td>
<td>Field Study in Counseling</td>
<td>1-9</td>
<td>Admission to postmasters programs.</td>
<td>Provides on-the-job supervised learning experience for doctoral students in Counseling and Personnel Services. A prospectus describing in concise detail the internship duties must be submitted the semester before the internship begins. May be repeated for up to 12 semester hours of credit. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 782</td>
<td>Doctoral Internship</td>
<td>1-6</td>
<td>Doctoral students in counseling and student personnel or consent of instructor.</td>
<td>Provides on-the-job supervised learning experience for doctoral students in Counseling and Personnel Services. A prospectus describing in concise detail the internship duties must be submitted the semester before the internship begins. May be repeated for up to 12 semester hours of credit. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 789</td>
<td>Advanced Research Design</td>
<td>3</td>
<td>Spring Only</td>
<td>Discussion of quantitative research methods and their application to the design of a study. Emphasis on designs for causal inferences about the effects of an intervention on outcomes variables, especially quasi-experimental designs. Note: Cross-listed with EDAP 789, ELFH 789, HSS 789. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 793</td>
<td>Doctoral Seminar in Educational and Counseling Psychology</td>
<td>1-3</td>
<td>Admission to doctoral study.</td>
<td>Analysis of current issues and research in the field of counseling. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>ECPY 794</td>
<td>Doctoral Seminar in Counseling and Student Personnel</td>
<td>3</td>
<td>Admission to doctoral study.</td>
<td>Analysis of current issues and research in the field of counseling. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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</table>
ECPY 795. Doctoral Research 1-15 Units
Prerequisite(s): Completion of coursework for PhD program or successful completion of comprehensive examinations.
Description: Doctoral students must register for the course by using the departmental prefix, corresponding to their dissertation chair.
Note: Cross-listed with EDSP 795 and ELFH 795.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 796. Research Literature 1-6 Units
Description: For advanced graduate students only. Consent of instructor and department chair required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 797. Internship in Educational Psychology, Measurement, and Evaluation 3 Units
Prerequisite(s): Admission to doctoral study.
Description: This course will provide students with an opportunity to work in an applied educational research setting, conducting research on a variety of topics as needed by practicum site.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 798. Field Study 2 Units
Description: For Eds candidates only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECPY 799. Professional Paper 1-5 Units
Description: For Eds candidates only. To provide course credit for the EdS candidate in completing the required independent professional project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Electrical and Computer Engineering (ECE)

ECE 500. Special Topics in Electrical Engineering 1-6 Units
Term Typically Offered: Fall, Spring, Summer
Description: Exploration of one or more ECE topics not covered in the regular course offerings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 505. Graduate-Professional Project in Electrical Engineering 1-6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Approval of a faculty sponsor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 510. Computer Design 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 210 and ECE 211.
Corequisite(s): ECE 511.
Description: Review of logic design and elementary computer organization. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.
Note: Cross-listed with CECS 510.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 511. Computer Design Laboratory 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 210.
Corequisite(s): ECE 510 or CECS 510.
Description: Experiments in the design of the central processing unit, memory, control, and input-output portions of a computer using VHDL for software simulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 514. Introduction to VLSI Systems Laboratory 1 Unit
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECE 510 (or concurrent) or CECS 510 (or concurrent) or consent of instructor.
Corequisite(s): ECE 515.
Description: Design of logic circuits and subsystems using CAD tools: layout, verification, parameter extraction, circuit- and logic-level simulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 515. Introduction to VLSI Systems 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ECE 510 (or concurrent) or CECS 510 (or concurrent) or consent of instructor.
Corequisite(s): ECE 514.
Description: MOS devices and circuits, electrical and logic design principles. Fabrication steps, design rules, electrical parameters, extraction, delays. Logic/switch arrays, dynamic precharge logic, precharge forms, finite state machines, registers, memories, subsystem design examples.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 516. Microcomputer Design 4 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 412 or CECS 412 or consent of instructor.
Description: Design and construction of microcomputers with microprocessors and digital integrated circuits. Breadboarding, hardware design and software design are emphasized. The class is separated into groups and each group designs, breadboards and tests a complete microcomputer system including interfaces to peripheral devices.
Note: Cross-listed with CECS 525.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 518. Fundamentals of Computer Communications and Networks 3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 360 or IE 360; ECE 412.
Description: Data communications: The exchange of data between devices is covered. The key aspects of transmission interfacing, link control, and multiplexing are examined. Data communication networking: Examines the internal mechanisms by which communication networks provide a data transfer service for attached devices.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 520. Digital Signal Processing 3 Units

Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 420.
Corequisite(s): ECE 521.
Description: Discrete time signals and systems; Discrete Fourier Transforms, FFT algorithms, flow graph and the matrix representation of digital filters; FIR and IIR filter design techniques; quantization effects; spectral estimation; current applications of digital signal processing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 521. Digital Signal Processing Laboratory 1 Unit

Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 420.
Corequisite(s): ECE 520.
Description: Focuses on the implementation of common digital signal processing functions using state-of-the-art DSP devices and software. Introduction to fundamentals of discrete-time signal processing and digital signal processor architectures and applications. Emphasis on laboratory experience involving generation of deterministic and random signals; digital filter design; quantization effects; FFT computation; linear system analysis; speech processing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 523. Introduction to Biometrics 3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 420 and Senior standing.
Description: Biometric approaches aim at identification based on a physical characteristic. Survey of biometric techniques with focus on non-intrusive approaches. Topics covered include image formation, sensors, motion tracking, and face recognition algorithms.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 526. LabVIEW for Electrical Engineers 3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 420 (or concurrent) or permission from the instructor.
Description: Introduction to capabilities of LabVIEW software for electrical engineers. Weekly labs build mastery of LabVIEW applications such as: data acquisition and analysis, instrumentation, and DSP programming.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 530. Introduction to Random Processes and Estimation Theory 3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ENGR 330; ECE 360 or IE 360; and ECE 420.
Description: Introduction to the theory and applications of random processes, a nonmeasure-theoretic approach to the study of random variables, functions of random variables, least square estimation, convergence, stochastic representation, stationarity, ergodicity, Gaussian processes, Poisson processes, Markov chains, and random fields.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 531. Power Electronics 3 Units

Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 333, ECE 334, and ECE 420.
Description: Topics in power electronics including: power semiconductor devices; converter topologies and their applications; switched-mode DC and uninterruptible power supplies; motor drives; EMI concerns and remedies for interfacing to electric utilities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 532. Electromechanical System Designs for Home Appliances 4.5 Units

Term Typically Offered: Fall, Spring, Summer
Description: An integrated study of advanced electrical engineering and software engineering fundamentals and their application to technologies associated with the design, development, and production of modern major household appliances. This class is designed for GE Appliances Edison students or GE Appliances employees enrolled in the ECE program.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 533. Integrated Circuit Design 3 Units

Term Typically Offered: Spring Only
Prerequisite(s): ECE 333.
Corequisite(s): ECE 534.
Description: Analysis and design of analog integrated circuits. Bipolar, JFET, and MOS-FET devices. The technology of IC fabrication. Transistor connections, current sources, active loads, and output stages. Integrated amplifier and MOS circuit design.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 534. Integrated Circuit Design Laboratory 1 Unit

Term Typically Offered: Spring Only
Prerequisite(s): ECE 333.
Corequisite(s): ECE 533.
Description: Laboratory to illustrate design principles in ECE 533. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 539. Industrial Software for Home Appliances  4.5 Units
Description: This course provides electrical engineering graduate students working in the major home appliance industry with an understanding of industrial software engineering fundamentals and their application to technologies associated with the design, development, and production of major household appliances such as refrigerators, washers, dryers, cooking products and dishwashers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 540. Fundamentals of Lasers  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 542 or ECE 473 and PHYS 355 or consent of instructor.
Description: Topics to be discussed include interaction of light with matter, optical amplifiers, laser resonators, Gaussian and higher order optical beams, non-linear optics, and ultra-fast laser pulses.
Note: Cross-listed with PHYS 547.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 541. Engineering Optics Laboratory  1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 540 (or concurrent).
Description: Computer-aided design-oriented series of fundamental optics experiments ranging from thin lens experiments, diffraction, interference, laser coherence and birefringence. Abbe theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 542. Physical Electronics  3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): PHYS 300 (or concurrent).
Description: Semiconductor fundamentals, energy bands, carrier transport theory, continuity equations, PN junction diodes, Zener diodes, Schottky Barrier diodes, metal-semiconductor contacts, bipolar junction transistors, MOS capacitors, field effect transistors, microelectronic fabrication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 543. Fundamentals of Microfabrication and MEMS  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Senior standing.
Description: Microfabrication techniques including cleanroom technology, lithography, thermal oxidation, diffusion, ion implantation, film deposition, etching, micromachining, wafer-level bonding/polishing, and packaging yield. Microtechnology measurement and analysis techniques. Process simulation. CAD device-layout. MEMS (microelectromechanical systems) and microelectric technology and applications. Material issues for MEMS/microelectronics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 544. Microfabrications/MEMS Laboratory  1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 543 (or concurrent).
Description: Laboratory to illustrate microfabrication processes, semiconductor measurement techniques, MEMS microstructure fabrication, and MEMS testing. Cleanroom activity required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 545. Optical Signal Processing  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 420 or consent of instructor.
Description: Scalar diffraction theory and equivalence to linear filtering. Fourier transform properties of lenses. The modulation transfer function.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 546. Introduction to Medical Imaging  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHYS 542 or ECE 473 and PHYS 355 or consent of instructor.
Cross-listed with PHYS 547.
Description: Focuses on the foundation of modern medical imaging at an introductory level with emphasis placed on concepts: X-ray, CT, MRI, PET, and Ultrasound will be discussed. Students interested in in-depth treatment of these topics should register for ECE 641.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 550. Communication and Modulation  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ECE 360 or IE 360, and ECE 420.
Corequisite(s): ECE 551.
Description: Modulations such as AM, FM, PAM, PPM, PDM, single sideband, vestigial sideband. Coherent and noncoherent detection, heterodyne action, performance and distortion, circuits for modulation and demodulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 551. Communication Systems Laboratory  1 Unit
Term Typically Offered: Spring Only
Prerequisite(s): ECE 420.
Corequisite(s): ECE 550.
Description: Laboratory exercises involving the design and analysis of electronic communication systems for the transmission of analog and digital data at radio frequencies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
<th>Description</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 555</td>
<td>Digital Image Processing</td>
<td>3</td>
<td>Fall, Spring</td>
<td>ECE 520 and ECE 521, or ECE 420 and departmental consent</td>
<td></td>
<td>Introduction to the theory and applications of 2-D signal and image processing; 2-D signals and systems analysis, 2-D sampling and quantization, 2-D signals and image transforms, 2-D FIR filter design; image formation; image enhancement; image restoration; image coding; image reconstruction from projections; image compression; color image processing; current applications. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 473</td>
</tr>
<tr>
<td>ECE 556</td>
<td>Digital Image Processing Laboratory</td>
<td>1</td>
<td>Fall, Spring</td>
<td>ECE 555</td>
<td></td>
<td>Laboratory experiments in software are assigned to test the concepts covered in ECE 555, Digital Image Processing. Projects include: Image Representation and Transformation, Image Enhancement in the spatial and frequency domain and Image Restoration. Time permitting, projects on image compression and image segmentation will also be assigned. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 555</td>
</tr>
<tr>
<td>ECE 560</td>
<td>Control Systems Principles</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ECE 420</td>
<td>ECE 561</td>
<td>Basic concepts of linear control systems. Formulation of the linear control problem by classical and state space methods. Frequency response and time response analysis and synthesis techniques. Stability and system performance specifications. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 473</td>
</tr>
<tr>
<td>ECE 561</td>
<td>Control Systems Laboratory</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>ECE 560</td>
<td></td>
<td>Laboratory exercises involving identification, analysis and design of closed-loop control systems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 561</td>
</tr>
<tr>
<td>ECE 564</td>
<td>Fundamentals of Autonomous Robots</td>
<td>3</td>
<td>Fall Only</td>
<td>ECE 555</td>
<td></td>
<td>Fundamentals of autonomous robots: sensors, path planning, machine perception, basic principles of AI, modeling, control and architecture. Case studies in industry and medicine will be discussed. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Only</td>
<td>ECE 564</td>
</tr>
<tr>
<td>ECE 565</td>
<td>Fundamentals of Autonomous Robots Lab</td>
<td>1</td>
<td>Fall Only</td>
<td>Senior standing, or permission of instructor</td>
<td></td>
<td>An autonomous robots laboratory experience in which the student becomes familiar with designing and building autonomous robots, using sensors, applying robotic paradigms and controller design. A final robotic competition will be held at the end of the semester. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall Only</td>
<td>ECE 564</td>
</tr>
<tr>
<td>ECE 569</td>
<td>Intermediate Electromagnetic Fields and Waves</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ECE 473</td>
<td></td>
<td>General curvilinear coordinates. Electromagnetic energy transmission. The wave equation, Poynting theorem and plane wave propagation in media. Transmission lines and impedance matching. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 569</td>
</tr>
<tr>
<td>ECE 581</td>
<td>Electric Machines and Drives</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ECE 473</td>
<td></td>
<td>Operating principles and characteristics of DC, induction, synchronous motors/generators. AC/DC electric-machine drives for speed/position control. Integrated discussion of electric machines, power electronics, and control systems. B and H in ferromagnetic materials. Magnetic circuits. Transformers. Dynamic equations of magnetic systems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 581</td>
</tr>
<tr>
<td>ECE 593</td>
<td>Independent Study in Electrical Engineering</td>
<td>1-6</td>
<td>Fall, Spring, Summer</td>
<td>Approval of a faculty sponsor</td>
<td></td>
<td>For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 593</td>
</tr>
<tr>
<td>ECE 595</td>
<td>Graduate/Professional Seminar in Electrical &amp; Computer Engineering</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Approval of a faculty sponsor</td>
<td></td>
<td>For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 595</td>
</tr>
<tr>
<td>ECE 600</td>
<td>Special Topics in Electrical &amp; Computer Engineering</td>
<td>1-6</td>
<td>Fall, Spring, Summer</td>
<td>Approval of a faculty sponsor</td>
<td></td>
<td>For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>Fall, Spring, Summer</td>
<td>ECE 600</td>
</tr>
</tbody>
</table>
ECE 602. Graduate Internship in Electrical and Computer Engineering 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): Student must be admitted for Graduate Study, and be a sponsored member of the Graduate Intern Program.
Description: Supervised professional experience in industry at the graduate level. This course provides the structure and focus for the graduate intern field assignment to ensure that the assignment is appropriate and consistent with the intern's graduate course of study and professional development. May be repeated for credit. Does not count toward credit for a degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 605. Graduate Project in Electrical & Computer Engineering 1-6 Units
Prerequisite(s): Approval of a faculty sponsor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 611. Computer Architecture 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Any of the following: CECS 510, CECS 525, ECE 510, ECE 516 or equivalent.
Description: This course will provide in-depth exposure to advanced topics in computer architecture. The emphasis is on studying and analyzing fundamental issues in computer architecture design and their impact on performance. Course topics include performance measurements; ISA; memory hierarchy design and cache memory; advanced pipelining; and advanced computer structures for instruction-level parallelism, instruction scheduling, data-level parallelism, and thread-level parallelism.
Note: Cross-listed with CECS 611.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 613. Computational Intelligence Methods for Data Analysis 3 Units
Prerequisite(s): Graduate Standing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 614. Deep Learning 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 619. Computer Vision 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): ECE 555 or ECE 618.
Corequisite(s): ECE 645.
Description: Introduction to the theory and applications of computer vision. Topics include: image representation, image segmentation, image analysis by mathematical morphology, texture, shape representation, shape analysis and 3D vision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 620. Pattern Recognition and Machine Intelligence 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ECE 420 and ECE 360 or IE 360.
Corequisite(s): ECE 655.
Description: Fundamentals of statistical, structural, and syntactic pattern recognition approaches. Parametric and nonparametric classification, feature extraction, clustering, and formal languages representation. Applications include: Data classification, character recognition, speech recognition, and target tracking.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 631. Advanced Electromechanical System Design for Home Appliances 4.5 Units
Description: Provides electrical engineering graduate students working in the major home appliance industry with an advanced, integrated summary of electrical engineering and computer engineering fundamentals presented in the context of technologies impacting appliance product lines and production methodologies. Curriculum materials and assignments emphasize the multi-disciplinary nature of these technologies, and critical role played by EE / CE in their realization. The course culminates in an end-of-semester project, which the students will work together to solve a real-world engineering problem from the major home appliance industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 632. Semiconductor Principles 3 Units
Prerequisite(s): ECE 542 and ECE 473.
Description: Fundamental principles of semiconductors necessary for a detailed understanding of the operation of transistors, including energy bands, carrier statistics, recombination-generation, carrier transport, and Boltzmann equation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 633. Microelectronics Design and Fabrication 4 Units
Term Typically Offered: Spring Only
Prerequisite(s): ECE 542, ECE 543 and ECE 544.
Description: Design, layout, simulation and verification, fabrication, characterization, and extraction of model parameters for microelectronic devices (e.g., MOSFETs) and circuits.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 636. MEMS Design and Fabrication  
Term Typically Offered: Spring Only  
Prerequisite(s): ECE 543 and ECE 544.  
Description: Design, layout, simulation and verification, fabrication,  
characterization, and extraction of model parameters of MEMS devices.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 638. The MOSFET  
Prerequisite(s): ECE 542.  
Description: Fundamentals of MOSFET operation and fabrication,  
including long-channel MOSFET's, short-channel MOSFET's, sub-100nm  
gate-length MOSFET's, and novel MOSFET structures.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 639. Advanced Industrial Software for Home Appliances  
Description: ECE 639 provides electrical engineering graduate students  
working in the major home appliance industry with an understanding of  
industrial software engineering fundamentals and their application to  
technologies associated with the design, development, and production  
of major household appliances such as refrigerators, washers, dryers,  
cooking products and dishwashers.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 640. Introduction to Biomedical Engineering  
Prerequisite(s): ECE 420.  
Description: Engineering modeling and simulation of biological systems,  
quantitative physiology of the cardiovascular, pulmonary, and circulation  
systems, fundamentals of biomechanics and human-machine interface,  
basics of medical instrumentation design, and artificial organs. Practical  
applications include biopotential amplifiers design, biological signal  
processing, and medical imaging.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 641. Medical Imaging Systems  
Prerequisite(s): ECE 555 or ECE 618.  
Description: Focuses on the foundations of modern medical imaging.  
Topics include: X-ray generation and X-ray/tissue interactions, projection  
X-ray imaging, image reconstruction from projections, X-ray CT, MRI,  
nuclear medicine, SPECT, PET, and Ultrasound.  
Note: Cross-listed with CECS 641.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 642. Fiber Optics and Integrated Optical Systems  
Description: Propagation of electromagnetic waves in dielectric media.  
Phase and group velocity. Eikonal equation. Ray and wave theory of  
uniform and graded index planar and channel optical waveguides and  
optical fibers. Design and fabrication techniques for waveguides and  
integrated optical devices. Semiconductor laser and modulator design.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 643. Introduction to Biomedical Computing  
Prerequisite(s): Graduate Standing.  
Description: Covers various aspects of modern tools of biocomputing in  
its broad sense; hardware and software issues are covered. Topics  
include: Super and high performance computer architecture, high  
bandwidth networking, wireless computing, visualization, and software  
engineering in medicine. Topics also include computer-assisted  
interventions, imaging, parallel programming, and database design and  
query, as applied to life, medical and biomedical sciences.  
Note: Formerly cross-listed with CECS 643.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 645. Computer Vision Laboratory  
Prerequisite(s): ECE 555 or ECE 618.  
Corequisite(s): ECE 619.  
Description: Laboratory experiments in hardware and software forms  
are assigned to test the concepts covered in ECE 619, Computer Vision.  
Projects include: Image formation and camera calibration, stereo vision,  
3D object reconstruction from the sequence of images, active vision  
applications, surface registration, and motion estimation.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 647. Fundamentals of Optoelectronics and Photonics  
Prerequisite(s): Consent of instructor.  
Description: Introduction to fundamental properties, components,  
and theories used to build optical systems for broad bandwidth  
telecommunications, computing, sensing and information processing.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 651. Communication System Design  
Prerequisite(s): ECE 550.  
Description: Emphasis on the systems approach to digital  
communication systems design. Topics include communication  
link analysis, channel coding, modulation and coding trade-offs,  
synchronization, spread spectrum techniques, and data encryption and  
decryption.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 652. Information Theory and Coding  
Prerequisite(s): ECE 550.  
Description: Information theory, capacity, and measures of information;  
fixed and variable length block encoding, data compression; state  
transition and Markov source models for communication channels and  
methods of achieving maximum capacity; topics in abstract algebra  
including groups, rings and fields; block error correction codes such  
as Hamming codes, cyclic codes, BCH codes, Reed Soloman codes;  
convolutional codes and Viterbi decoding algorithm.  
For class offerings for a specific term, refer to the Schedule Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ECE 653. Digital Communications 3 Units
Prerequisite(s): ECE 550 and ECE 360.
Description: Review of random process theory, sampling and quantization, source coding, optimum receivers for AWGN channels, digital transmission through band-limited AWGN channels, inter-symbol interference, equalization, and spread spectrum systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 654. Advanced Voice/Data Networks 3 Units
Prerequisite(s): ECE 518 or CEECS 516 or permission of the instructor.
Description: This course extends topics covered in ECE 518 to address advanced networking technologies that are used in corporate intranets and the Internet. Topics covered include: packet-voice technologies, Ethernet switching, IP version 6, digital subscriber loop technologies, dynamic routing, tagged packet switching technologies, and Quality of Service (QoS).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 655. Pattern Recognition and Machine Intelligence Laboratory 1 Unit
Term Typically Offered: Fall, Spring
Corequisite(s): ECE 620.
Description: Laboratory experiments in hardware and software forms are assigned to test concepts covered in ECE 620, Pattern Recognition and Machine Intelligence. Projects include: Stochastic simulation, design of Bayesian classifiers, clustering, hyperspectral classifiers, digital train mapping, automatic target recognition, and biomedical applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 660. Introduction to Robust Control 3 Units
Prerequisite(s): ECE 560 and ECE 561.
Description: To provide students with the fundamentals of Robust Control Theory, with emphasis on stability and performance analysis in the time and frequency domains and design tools for robust performance and robust stability. It examines how a controller can be designed taking into account uncertainties in the model of the plant. The course will include a final design project which will be completed using MATLAB.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 661. Sampled-Data Control Systems 3 Units
Prerequisite(s): ECE 560.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 662. Introduction to Optimum Control 3 Units
Prerequisite(s): ECE 560.
Description: Calculus of variations, dynamic programming, the minimum principle, and numerical optimization techniques applied to discrete-time and continuous-time deterministic control systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 664. Modern Adaptive Control 3 Units
Prerequisite(s): ECE 560 and ECE 625.
Description: Methods of modern adaptive control, including the indirect and direct approaches. Discrete- and continuous-time controllers. Behavior of controllers under nonideal conditions, including stochastic disturbances and unmodeled dynamics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 665. Theory of Nonlinear Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ECE 560 and ECE 561.
Description: Modern theory of nonlinear systems including phase plane analysis, Lyapunov stability theory, perturbation theory, singular perturbations, describing functions, Lure problem, Popov circle criterion. Applications to closed-loop control systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 667. Nanotechnology 3 Units
Prerequisite(s): Graduate standing or instructor consent.
Description: A survey of the current state-of-the-art in Nanotechnology (e.g. nano-fabrication, electronics, self-assembly) through selected readings and special topic reports from the students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 668. Nanostructure Self-Assembly 3 Units
Prerequisite(s): Graduate standing or Instructor consent.
Description: Self-assembly results from energetically favorable thermodynamics and kinetics (e.g. phase transformations, nucleation, grain growth) will be covered and related to current local and world-wide research projects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 669. Foundations of Polymer MEMS 3 Units
Prerequisite(s): Graduate standing or instructor consent.
Description: An overview of the range of physical properties and applications of polymers, independent student readings and class reports on applications of polymers to the fabrication and operation of MEMS devices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 670. Advanced Power System Analysis 3 Units
Prerequisite(s): ECE 582.
ECE 687. Platform Engineering Project 3 Units
Prerequisite(s): ME 530, ME 531 and ECE 532.
Description: Major product development project involving a multidisciplinary team working on design and/or research problems associated with consumer appliance technologies. Concurrent topics on research methodologies, product realization, and project management. A proposal, activity reports and final report are required. Project results are presented for faculty and peer review.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 690. Master of Science Thesis or Paper in Electrical Engineering 1-6 Units
Prerequisite(s): Graduate or Professional standing.
Description: Performance of an engineering project or research activity under the direction of a faculty member, resulting in a thesis that demonstrates both mastery of the subject matter and a high level of communication skills. A written thesis must be presented and defended orally before a faculty committee for approval and be submitted to a referred conference or refereed journal for potential publication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 692. Master of Science Advanced Level Independent Project 3-4 Units
Prerequisite(s): Graduate Standing. Approval of the Department Chair.
Description: Students enrolled in this course will engage in an engineering project or research activity and produce a report that demonstrates both mastery of the subject matter and a high level of communication skills. Oral presentation of the report is required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 693. Independent Study in Electrical & Computer Engineering 1-6 Units
Prerequisite(s): Approval of a faculty sponsor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 695. Graduate Seminar in Electrical and Computer Engineering 1 Unit
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 696. Advanced Level Oral Presentation 0 Units
Grading Basis: Pass/Fail
Prerequisite(s): Graduate or Professional Standing and approval of the Department Chair.
Corequisite(s): Enrollment in an approved ECE companion course for the Advanced-Level Project/Research/Communication requirement.
Description: Oral presentation before a faculty committee, of the results of an engineering project or research activity.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 697. Master of Engineering Thesis or Paper in Electrical Engineering 1-6 Units
Prerequisite(s): ECE 497 and Graduate or Professional standing.
Description: Performance of a study, design, or investigation under the direction of a faculty member. A written thesis or technical paper must be presented and defended orally before a faculty committee for approval. A paper must be submitted to a referred conference or refereed journal for potential publication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ECE 700. Dissertation Research in Electrical Engineering 1-18 Units
Prerequisite(s): Completion of doctoral core program and consent of dissertation director.
Description: Original research activity in an appropriate electrical engineering discipline, under the direction of an Electrical and Computer Engineering graduate faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Engineering Management (EM)

EM 525. Project Management 3 Units
Prerequisite(s): Admission into the Industrial Engineering or Engineering Management program or instructor permission.
Description: Use of CPM, PERT, precedence diagramming, resource allocation heuristics, and other techniques for planning, managing, and controlling engineering projects involving research and development, production, maintenance, and construction. Computer procedures and codes for analyzing complex project networks will be covered.
Note: Cross-listed with IE 525.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EM 560. Construction Management 3 Units
Prerequisite(s): Admission into the Engineering Management program or instructor permission.
Description: An investigation of the engineer's role in the construction process. Study of the many variables influencing the project and associated methods of managing variables. Includes a practical demonstration of student's understanding of schedule and cost estimate for a project of the student's choosing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EM 561. Engineering Statistics I 3 Units
Prerequisite(s): Admission into the Engineering Management program or instructor permission.
Description: Study of the laws of probability, discrete and continuous probability distributions, point and interval estimation, tests of hypothesis, simple linear regression, and the single factor analysis of variance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EM 582. Management of Human Systems  3 Units  
Prerequisite(s): Admission into the Engineering Management program or instructor permission.  
Description: Computer-aided, quantitative application of human performance capabilities and limitations to the planning, design, development, and evaluation of complex human-machine/industrial systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 613. Operations Management  3 Units  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: Concepts in strategic planning, quality management, operations research, facility design, supply chain and logistics, forecasting, inventory control, resource planning, and scheduling. Emphasis is on appropriate analytical and computer-based techniques.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 615. Management Science  3 Units  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: Students will gain knowledge in the application of management science processes and models used in decision making. Emphasis will be placed on the mathematical tools and will cover the following topics: Decision Analysis, Regression Models, Forecasting, Inventory, Control Models, Linear Programming, Queuing Theory, and Discrete Event Simulation.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 624. Human Resource Management  3 Units  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: This course will present HR management various activities including hiring, training, performance review, motivation, and employee satisfaction.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 627. Information Technology Management  3 Units  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: This course will present concepts in information technology including basic hardware/software technologies, telecommunications and networks, data management/database technologies, and security/ethics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 628. Engineering Management  3 Units  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: The principles and practices of administration of the engineering function, including management, organization, planning, controlling and measuring results, management of human resources, communication and decision-making.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 632. Quality Management  3 Units  
Term Typically Offered: Fall Only  
Prerequisite(s): EM 661; admission in EM program or instructor permission.  
Description: In this course, students will gain knowledge in the application of quality improvement methodology in both manufacturing and service environments. Emphasis will be placed on philosophical approaches to quality improvement and quantitative methods of quality control. The following topics will be included: Corporate Quality Programs, Applications for Quality Improvement, Measurement Systems Analysis, Statistical Process Control, Experimental Design, Root Cause Analysis, and Design for Quality.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 640. Applied Systems Analysis  3 Units  
Prerequisite(s): IE 360 or equivalent; admission into the EM program or instructor permission.  
Description: Methods of engineering management applied to case studies so as to define the problems, analyze the data, and recommend solutions or decisions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 645. Decision and Risk Analysis  3 Units  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: In this course students will gain knowledge in the process of decision-making. Emphasis will be placed on quantitative and qualitative tools and will cover the following topics: Introduction to Decision Analysis, Elements of Decision Problems, Structuring Decisions, Making Choices, Sensitivity Analysis, and Organizational Use of Decision Analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 646. Marketing and the Engineer  3 Units  
Prerequisite(s): Admission into the EM program or instructor permission.  
Description: Provides an introduction to marketing principles and techniques with an emphasis on technical product development, pricing, promotion and distribution strategies. It stresses the role the engineers play in the product marketing plan of an organization, as well as methods for forecasting technology and measuring marketing decisions. It includes a unit on marketing aspects of engineering entrepreneurship.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

EM 656. Supply Chain Management  3 Units  
Prerequisite(s): EM 613 and admission in EM program, or instructor permission.  
Description: Understand how supply chain design and planning decisions impact the performance of the firm as well as the entire supply chain. Understand the link between supply chain structures and logistical capabilities in a firm. Case studies and problems are used throughout the course to highlight important concepts and principles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EM 661. Engineering Statistics II  
Prerequisite(s): IE 360 (or equivalent) and admission into the EM program, or instructor permission.  
Description: The principles and techniques of advanced statistics, including multiple linear regression, multi-factor analysis of variance, experimental design, nonparametric statistics, and quality control. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

EM 670. Engineering Financial Management  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: This course examines various approaches for managing financial resources in the technology enterprise, including cost accounting and cost estimating. The focus is both direct and indirect costs for materials, labor and overhead. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

EM 672. Management Law for Engineers  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: In this course, students will study the common law as it pertains to Contracts, Torts and Real Estate; rules governing business transactions in the area of creditors' rights in secured transactions and suretyship; sales as covered by the Uniform Commercial Code; business relationships such as agency and forms of business ownership, and ethics and professional liability. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

EM 674. Intellectual Property Law for Engineers  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: A study of U.S. law governing the protection for various forms of intellectual property including patent, trademark, and copyright law. Issues addressed include creation, ownership, acquisition, use, and transfer of various forms of intellectual property. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

EM 693. Independent Study in Engineering Management  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
1-6 Units

EM 694. Special Topics in Engineering Management  
Prerequisite(s): Admission in EM program or instructor permission.  
Description: A theoretical or experimental investigation of an engineering management problem. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units

EM 697. MEng Thesis in Engineering Management  
Prerequisite(s): Instructor permission required.  
Description: The Engineering Management MEng student carries out an engineering project under the supervision of a faculty mentor, prepares an acceptable written report, and presents a seminar on the project.  
Note: Cross-listed with IE 699. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

ENGL 501. Independent Study  
Prerequisite(s): Overall GPA of 3.0, an average of 3.5 in the department, and at least 18 semester hours credit in the department.  
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

ENGL 502. Independent Study  
Prerequisite(s): Overall GPA of 3.0, an average of 3.5 in the department, and at least 18 semester hours credit in the department.  
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

ENGL 504. Advanced Creative Writing II  
Prerequisite(s): ENGL 305, or consent of instructor.  
Description: Concentration on a given form. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units

ENGL 505. Advanced Technical Writing - WR  
Prerequisite(s): ENGL 303, or writing sample with instructor's consent.  
Description: Topic definition, audience analysis and editing strategies for technical reports, theses and articles in various disciplines.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
1-6 Units  
3 Units
ENGL 506. Teaching of Writing - CUE, WR 3 Units
Prerequisite(s): ENGL 300, or ENGL 309, or ENGL 310, or consent of instructor.
Description: Introduction to the theory, research, and practice that informs the effective teaching of writing.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

ENGL 507. The Teaching of Creative Writing - CUE, WR 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: Introduction to the theory, research, and practice that informs the effective teaching of creative writing.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

ENGL 508. Literacy Tutoring Across Contexts and Cultures - WR 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: The theory and practice of teaching writing in one-on-one and small group settings in academic, professional and community settings; pedagogical strategies for working with writers from a variety of backgrounds and contexts.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Students who complete this course will be eligible for tutoring internships.

ENGL 510. Cooperative Internship in English 3 Units
Prerequisite(s): Approved only for graduate-level credit, permission of graduate director required; restricted to students in good standing (GPA 3.0 or above).
Description: An individually arranged semester-long project that combines English studies with workplace-based goals and responsibilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 515. Introduction to Old English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: Readings in the original language of Old English prose and poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 518. Foundations of Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: A survey of contemporary theories of language, from structuralism to transformational grammar; the relationship of linguistics to literature, psychology, philosophy, reading, and sociology.
Note: Cross-listed with LING 518.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 520. World Englishes 3 Units
Prerequisite(s): LING 325 or ENGL 325 (undergraduates only); minimum Junior standing.
Description: Exploration of the historical, social, and political context of the various varieties of English throughout the world; standardization, pidgins, and creoles will also be investigated.
Note: Cross-listed with LING 520.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 522. Structure of Modern English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Examination of the structure of modern English language; emphasis on grammatical terminology and systems of classification. Students collect and analyze linguistic examples, spoken and written. Recommended for prospective English teachers.
Note: Cross-listed with LING 522.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 523. History of the English Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: The evolution of modern English in terms of social, historical, and linguistic forces which molded it. Emphases include: Indo-European origins; Germanic sources and Latin, French, and Danish influences; structural and lexical change; development of dialect differences; colonial spread of English in technology, emergence of World Englishes.
Note: Cross-listed with LING 523.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 535. Topics in Applied Linguistics 3 Units
Prerequisite(s): LING 325 or ENGL 325 (undergraduates only); minimum Junior standing.
Description: This course will focus on one aspect of applied linguistics. Topics may include discourse analysis, ESL teaching, language change, gender and language, or other relevant topics in applied linguistics.
Note: Cross-listed with LING 535.
Note: May be repeated up to a maximum of three times on different topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 541. Studies in Old and Middle English Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Readings in the original language of Old English prose and poetry. Pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 542. Studies in Tudor and Elizabethan Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Tudor and/or Elizabethan periods. Historical Period pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 543. Studies in Stuart and Commonwealth Literature - CUE  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from the Stuart and/or Commonwealth periods. Historical Period pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 544. Studies in Restoration and Eighteenth-Century British Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from the Restoration and/or Eighteenth Century periods. Historical Period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 545. Studies in British Literature of the Romantic Period - CUE  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers of the Romantic period. Historical Period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 546. Studies in British Literature of the Victorian Period - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Victorian period. Historical Period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 547. Studies in Modern British and/or Irish Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the turn of the century through 1950. Historical Period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 548. Studies in Contemporary British and/or Irish Literature - CUE  3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers since 1950. Historical Period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 549. Studies in Post-Colonial and/or Ethnic Literature - CUE 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers since 1950. Historical period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 550. Studies in African American Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, topics, or groupings of African-American writers.
Note: Cross-listed with PAS 551.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 551. Special Topics in Literature in English 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: An examination of one or more specific areas of study in English. Historical period varies by semester.
Note: Topics to be announced in schedule of courses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 552. Special Topics in Literature in English 3 Units
Description: Intensive study of selected drama and poetry of Shakespeare. Historical period pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 554. Women's Personal Narratives - CUE 3 Units
Prerequisite(s): ENGL 102, or ENGL 105, or WGST 199; junior standing.
Description: Course examines issues such as race, class, religion, geography, and sexual orientation surrounding the writing/reading of women's personal narratives (e.g., diaries, letters, autobiographies, oral histories, biographies, and films) from the 19th and 20th centuries.
Note: Cross-listed with WGST 520.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 561. Chaucer - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of African-American writers.
Note: Cross-listed with PAS 551.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 562. Shakespeare - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Intensive study of selected drama and poetry of Shakespeare. Historical period pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 563. Milton - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Intensive study of the poetry; background reading in Milton's biography and prose. Historical period: pre-1700.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 564. Selected Figures in American Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Study of the works of a selected writer or grouping of writers, in literary, biographical, and/or social context.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 567. Post-Colonial Voices: Writing Experience in African Literature - CUE, WR 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: Examination of "post-coloniality" through a selection of fiction and literary criticism by African writers. Historical period: post-1900.
Note: Cross-listed with PAS 567.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 570. Language and Social Identity 3 Units
Prerequisite(s): Junior standing; LING 325 or ENGL 325 for undergraduates.
Description: An introduction to the social systems and the language varieties found across societies. Additionally, students will objectively explore both linguistic and social norms.
Note: Cross-listed with LING 570.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 571. Studies in American Literature to 1865 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers before 1865.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 572. Studies in American Literature, 1865-1910 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics, or groupings of writers from the Civil War to 1910. Historical period: 1700-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 573. Studies in American Literature, 1910-1960 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from 1910 to 1960. Historical period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 574. Studies in American Literature, 1960 - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of selected movements, genres, topics or groupings of writers from 1960 to present. Historical period: post-1900.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 575. Genre Studies in African-American Literature - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of a selected genre of African-American Literature.
Note: Cross-listed with PAS 575.
Note: Historical period varies by semester; see schedule of courses.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 576. The Harlem Renaissance - CUE 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; Junior standing.
Description: In-depth study of the literature of the Harlem Renaissance in relation to other literary and artistic productions of the period. Historical period: post-1900.
Note: Cross-listed with PAS 577.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For course offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Course Attribute(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 581</td>
<td>Studies in Renaissance Drama - CUE</td>
<td>3</td>
<td>ENGL 102 or ENGL 105, Junior standing.</td>
<td>In-depth study of dramatic works by Shakespeare’s contemporaries. Historical period: pre-1700.</td>
<td></td>
</tr>
<tr>
<td>ENGL 586</td>
<td>Studies in American Drama - CUE</td>
<td>3</td>
<td>ENGL 102 or ENGL 105, Junior standing.</td>
<td>In-depth study of selected American plays.</td>
<td></td>
</tr>
<tr>
<td>ENGL 591</td>
<td>History of Criticism: Plato to the New Criticism - CUE</td>
<td>3</td>
<td>ENGL 102 or ENGL 105, Junior standing.</td>
<td>Study of selected theories for the interpretation of literary and other texts, from Plato to the New Criticism.</td>
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</tr>
<tr>
<td>ENGL 595</td>
<td>Studies in Literature and Science - CUE</td>
<td>3</td>
<td>ENGL 102 or ENGL 105, Junior standing.</td>
<td>In-depth study of selected American plays.</td>
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</tr>
<tr>
<td>ENGL 599</td>
<td>Advanced Studies in English - CUE, WR</td>
<td>3</td>
<td>ENGL 310; Junior standing.</td>
<td>In-depth analysis of and intensive writing about a focused area of study within the discipline of English.</td>
<td>CUE, WR</td>
</tr>
<tr>
<td>ENGL 601</td>
<td>Introduction to English Studies</td>
<td>3</td>
<td></td>
<td>Introduces students to research methods, print and electronic resources, strategies for reading and writing scholarly texts, and the seminar format.</td>
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</tr>
<tr>
<td>ENGL 602</td>
<td>Teaching College Composition</td>
<td>3</td>
<td></td>
<td>Introduction to the design of the freshman composition syllabus, writing assignments, and ways of responding to them.</td>
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</tr>
<tr>
<td>ENGL 603</td>
<td>Studies in Genres</td>
<td>3</td>
<td></td>
<td>A course in genre studies, featuring in any given semester the drama, biography, the essay, satire, etc.</td>
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</tr>
<tr>
<td>ENGL 604</td>
<td>Writing Center Theory and Practice</td>
<td>3</td>
<td></td>
<td>Provides a solid theoretical background for examining pedagogical issues important to an effective writing center, including such concerns as approaches to consulting with students, the role of grammar instruction in the writing center, consulting strategies for ESL students, the importance of computers in the writing center, record-keeping and resource development.</td>
<td></td>
</tr>
<tr>
<td>ENGL 605</td>
<td>Teaching Literature: Theory and Practice</td>
<td>3</td>
<td></td>
<td>Prepares incoming Teaching Assistants (TAs) to teach in the University Writing Center. Provides a solid theoretical background for examining pedagogical issues important to an effective writing center, including such concerns as approaches to consulting with students, the role of grammar instruction in the writing center, consulting strategies for ESL students, the importance of computers in the writing center, record-keeping and resource development.</td>
<td></td>
</tr>
</tbody>
</table>
ENGL 606. Creative Writing I  
**Prerequisite(s):** Permission of instructor or enrollment in a degree program in English.  
**Description:** A workshop in the writing of poetry, fiction, and drama, involving the reading and analysis of manuscripts and regular individual conferences.  
**Note:** Recommended prior coursework: ENGL 503, ENGL 504, or equivalent.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 607. Creative Writing II  
**Prerequisite(s):** Permission of instructor or enrollment in a degree program in English.  
**Description:** A creative writing workshop similar to ENGL 606, but also allowing interested students to pursue bases for structuring larger and more ambitious works.  
**Note:** Recommend prior coursework: ENGL 503, ENGL 504, or equivalent; and ENGL 606 or equivalent.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 610. Cooperative Internship in English  
**Prerequisite(s):** Permission of graduate director required.  
**Description:** An individually arranged semester-long project that combines doctoral work in rhetoric and composition with workplace goals and responsibilities. Restricted to students in good standing (GPA 3.0 or above). The internship project must relate directly to the student’s long-term academic and professional goals.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 613. Independent Study  
**Description:** Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 614. Independent Study  
**Description:** Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 615. Thesis Guidance  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 620. Research in the Composition  
**Description:** Examination of the major methodologies, quantitative and qualitative, in composition research, with their underlying theoretical assumptions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 621. Sociolinguistics  
**Prerequisite(s):** ENGL 518/LING 518 or consent of instructor.  
**Description:** An examination of the relationship between language and human behavior on various social levels.  
**Note:** Cross-listed with LING 621.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 624. Old English and Middle English Language and Literature  
**Prerequisite(s):** ENGL 503 or equivalent.  
**Description:** Intensive survey of the major literary figures and intellectual traditions of medieval England, with attention to modern critical approaches.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 625. The Teaching of English as a Second Language  
**Prerequisite(s):** Consent of instructor.  
**Description:** A theoretical and practical approach to teaching English to students for whom English is not a native language. The linguistic bases of English, as well as the application of curriculum principles, will be considered.  
**Note:** Cross-listed with LING 625.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 626. ESL Endorsement Portfolio  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** All other ESL endorsement requirements completed; restricted to ESL endorsement candidates.  
**Description:** Assists post-service teachers in preparing and submitting their ESL endorsement portfolios for review in order to complete the continuous assessment plan for the endorsement. Review takes place in the final phase of the course, of which self-assessment and peer assessment are components.  
**Note:** Cross-listed with LING 626.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 631. Renaissance Drama  
**Description:** Intensive survey of representative non-Shakespearean dramatic works produced in Renaissance England, with attention to literary traditions and modern critical approaches.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 632. Shakespeare 3 Units
Description: Intensive study of a large cross-section of the plays, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 633. Renaissance Poetry and Prose 3 Units
Prerequisite(s): Graduate standing.
Description: Intensive survey of literary figures and intellectual traditions of Renaissance England, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 642. Eighteenth-Century Fiction 3 Units
Description: Intensive survey of a diversity of fictional forms and their literary and intellectual traditions, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 643. Eighteenth-Century Poetry and Prose 3 Units
Description: Intensive survey of the major literary figures and intellectual traditions of Eighteenth Century England, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 644. Romantic Poetry and Prose 3 Units
Description: Intensive survey of the major literary figures and the intellectual traditions of English Romantic Movement, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 646. Literature in the Secondary Language Arts Curriculum 3 Units
Prerequisite(s): Experience teaching English, a course in methods of teaching English in the secondary school, or consent of instructor.
Description: Examines theories behind the teaching of literature, research in the teaching of literature, and current trends in the teaching of literature in secondary school language arts.
Note: Cross-listed with EDAP 646.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 647. Teaching Writing and Language in the Secondary School 3 Units
Prerequisite(s): Experience teaching English, a course in methods of teaching English in the secondary school, or consent of instructor.
Description: Examines theories of language acquisition and research and methodology in the teaching of grammars, vocabulary, spelling, semantics, etymology, usage, and dialectics in secondary school language arts.
Note: Cross-listed with EDAP 647.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 651. Nineteenth-Century Fiction 3 Units
Description: Intensive survey of a diversity of fictional forms and their literary and intellectual traditions, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 652. Nineteenth-Century British Poetry and Prose 3 Units
Description: An intensive survey of the major literary figures of 19th-century England, with attention to literary traditions and modern theories of interpretation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 653. Irish Studies 3 Units
Description: Intensive study of recent and contemporary Irish writers, with attention to literary and intellectual traditions and to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 654. Twentieth-Century Literature 3 Units
Description: Intensive study of major writers and literary movements in the English-speaking world during the twentieth century, with attention to literary and intellectual traditions and to the most recent critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 660. African-American Literature 3 Units
Prerequisite(s): Graduate standing.
Description: Intensive study of African-American literature and culture from any period or across several periods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 661. Nineteenth-Century American Fiction 3 Units
Description: Intensive survey of a diversity of fictional forms and literary and intellectual traditions, with attention to modern critical approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 662. Nineteenth-Century American Poetry and Prose 3 Units
Description: An intensive survey of the significant literary figures of nineteenth-century America, with attention to literary traditions and modern theories of interpretation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 664. American Authors: 1900-Present 3 Units
Description: Intensive study of selected American authors writing after 1900.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENGL 665. Contemporary Poetry 3 Units
Description: A survey or intensive sampling of contemporary poetry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 666. The Rhetoric of Science 3 Units
Prerequisite(s): Graduate Standing.
Description: Graduate seminar in rhetoric that examines science doing and science writing as rhetorical enterprises. As a result, we will consider science as "stories" and look at what these science stories say and how they say it.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 667. Graduate Writing in the Disciplines 3 Units
Prerequisite(s): Students should be enrolled in a graduate program.
Description: This writing course is intended for graduate and professional students, and focuses on developing familiarity with the conventions of graduate-level research writing across a range of genres and within a range of academic disciplines.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENGL 668. The Watson Seminar in Rhetoric and Composition 3 Units
Prerequisite(s): Enrollment in the doctoral program in English or permission of instructor.
Description: A seminar given by the English department's visiting Watson Professor addressing any aspect of the field of rhetoric and composition.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
**ENGL 689. Directed Reading for Comprehensive Examinations**  
1-3 Units  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Restricted to doctoral students who have completed all other coursework.  
**Description:** 1-3 hours; may be repeated; minimum of 3 hours required of all doctoral students. Directed reading on topics of student's comprehensive examinations; reading lists are negotiated between student and directors of the examination areas.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENGL 690. Dissertation Research**  
1-12 Units  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENGL 691. Contemporary Theories of Interpretation**  
3 Units  
**Description:** A selective survey of theories of interpretation from the New Criticism to the present, and of interpretive practices based on these theories.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENGL 692. Topics in Interpretive Theory since 1900**  
3 Units  
**Prerequisite(s):** Graduate standing; ENGL 691 or equivalent.  
**Description:** A graduate seminar dealing with a specific topic or area of inquiry within the broad field of post-1900 theories of interpretation.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### Entrepreneurship (ENTR)

**ENTR 600. Business Plan Development**  
3 Units  
**Prerequisite(s):** Enrolled Graduate status.  
**Description:** The primary aim of this Graduate level course is to build all aspects of a business plan. The course specifically focuses on business model development, strategic positioning, funding sources as well as working entrepreneurially within an organization (profit or non-profit).  
**Note:** Restricted to graduate-level students from any discipline within UofL.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 701. Foundations in Entrepreneurship Research**  
3-12 Units  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers the development of scholarship in entrepreneurship, preparatory to a doctoral student beginning his or her research.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 702. Seminar in Research Design I**  
3 Units  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers research design and conjoint analysis.  
**Note:** Previously taught as ENTR 761.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 703. Venture Capital Seminar**  
3 Units  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers scholarship in venture capital.  
**Note:** Previously offered as ENTR 768.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 721. Entrepreneurial Discovery Seminar**  
1.5 Units  
**Term Typically Offered:** Spring Even Years  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers scholarship on entrepreneurial discovery.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 722. Philosophy of Science**  
1.5 Units  
**Term Typically Offered:** Spring Even Years  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers philosophy of science as it relates to research in entrepreneurship.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 723. Seminar in Organizational Behavior/Human Resources in Entrepreneurship**  
3 Units  
**Term Typically Offered:** Spring Even Years  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers organizational behavior and human resources in entrepreneurial firms.  
**Note:** Previously taught as ENTR 740.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 724. Seminar in Entrepreneurship from a Strategic Perspective**  
3 Units  
**Term Typically Offered:** Spring Even Years  
**Prerequisite(s):** Doctoral student in Entrepreneurship.  
**Description:** This course covers organizational behavior and human resources in entrepreneurial firms.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 725. Linear Statistics**  
3 Units  
**Prerequisite(s):** PhD standing in Entrepreneurship; undergraduate matrix algebra & mathematical statistics (may be taken concurrently).  
**Description:** Covers advanced linear statistical models; the distribution of quadratic forms, estimation and hypothesis testing in the general linear model, including special linear models and their applications.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**ENTR 726. Advanced Multivariate Techniques**  
3 Units  
**Prerequisite(s):** PhD standing in Entrepreneurship.  
**Description:** Comprehensive treatment of multivariate statistics, including cluster analysis, MANOVA, factor analysis, discriminant analysis, and covariance structure modeling.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENTR 731. Independent Study I 3-9 Units  
Grading Basis: Pass/Fail  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Independent study to prepare for preliminary examinations.  
Note: Previously taught as ENTR 789.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 732. Independent Study II 3-9 Units  
Grading Basis: Pass/Fail  
Term Typically Offered: Summer, Fall Odd Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Students may select a specialized topic to study under faculty supervision.  
Note: Previously taught as ENTR 790.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 734. Independent Study to Prepare Second-Year Paper 3 Units  
Term Typically Offered: Summer, Fall Odd Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Students use this independent study to prepare their second-year papers.  
Note: Previously taught as ENTER 799.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 735. Quantitative Approach to Entrepreneurship Research 3 Units  
Term Typically Offered: Spring, Summer Even Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Reviews techniques and constraints to perform quantitative research in entrepreneurship.  
Note: Previously taught as ENTR 750.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 741. Seminar in Research Design II 3 Units  
Term Typically Offered: Summer, Fall Odd Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Reviews advanced research design concepts for performing research in entrepreneurship.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 742. Seminar in Entrepreneurship from an Economic Perspective 3 Units  
Term Typically Offered: Summer, Fall Odd Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Reviews entrepreneurship from an economic perspective.  
Note: Previously taught an ENTR 720.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 743. Seminar in Entrepreneurship from a Psychological Perspective 3 Units  
Term Typically Offered: Summer, Fall Odd Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Reviews entrepreneurship from a psychological perspective.  
Note: Previously taught as ENTR 733.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 751. Seminar in Current Topics in Entrepreneurship 3 Units  
Term Typically Offered: Spring, Summer, Fall Even Year  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Reviews current topics in entrepreneurship research.  
Note: Previously taught as ENTR 700.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 752. Seminar in a Sociological Perspective on Entrepreneurship 3 Units  
Term Typically Offered: Spring, Summer, Fall Even Year  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Reviews current topics in entrepreneurship research.  
Note: Previously taught as ENTR 710.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 753. Seminar in Family Business 3 Units  
Term Typically Offered: Spring, Summer, Fall Even Year  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Seminar in family business.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 754. Seminar in Social Entrepreneurship 1.5 Units  
Term Typically Offered: Spring Even Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: This course covers social entrepreneurship in the field of entrepreneurship research.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 760. Entrepreneurship Directed Readings I 1-6 Units  
Term Typically Offered: Summer, Fall Odd Years  
Prerequisite(s): Doctoral student in Entrepreneurship.  
Description: Students may select a specialized topic to study under faculty supervision.  
Note: Previously taught as ENTR 770.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ENTR 762. Entrepreneurship Directed Readings II 1-6 Units
Term Typically Offered: Summer, Fall Odd Years
Prerequisite(s): Doctoral student in Entrepreneurship.
Description: Students may select a specialized topic to study under faculty supervision.
Note: Previously taught as ENTR 771.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 763. Entrepreneurship Directed Readings III 1-6 Units
Term Typically Offered: Summer, Fall Odd Years
Prerequisite(s): Doctoral student in Entrepreneurship.
Description: Students may select a specialized topic to study under faculty supervision.
Note: Previously taught as ENTR 772.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ENTR 780. Special Topics in Entrepreneurship 1-6 Units
Prerequisite(s): PhD standing in Entrepreneurship.
Description: An advanced study of one or more selected topics or issues related to the study of Entrepreneurship.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Executive Master of Business Administration (EMBA)

EMBA 600. Joint Executive MBA Program with UK 0 Units
Description: Joint Executive MBA Program with the University of Kentucky
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 601. Managing People 2 Units
Prerequisite(s): Admission to the program.
Description: Concepts and techniques of individual and groups including personality, motivation, power and politics, decision-making, group dynamics, job satisfaction, cultural influences and organizational development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 602. Business Models for Quantitative Analysis 2 Units
Prerequisite(s): Admission to program.
Description: Data organization and presentation, descriptive statistics, common probability distributions, regression and inferential statistics, such as confidence intervals and test of significance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 603. Economics I 2 Units
Prerequisite(s): Admission to the program.
Description: Study of market systems, supply & demand analysis, consumer behavior, production theory, economic costs and profit, and horizontal and vertical boundaries of the firm.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 604. Strategic Analysis 2 Units
Prerequisite(s): Admission to the program.
Description: Strategic Analysis consists of analyzing information from the internal and external environments to recognize and assess organizational strengths, weaknesses, opportunities & threats.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 605. Economics II 2 Units
Prerequisite(s): Admission to program.
Description: Study of markets and market structure, competitive markets, monopoly, and pricing with market power, and oligopoly, rivalry, and strategic behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 606. Financial Accounting 2 Units
Prerequisite(s): Admission to the program.
Description: Fundamental principles of accounting needed by the manager. Topics include the assumptions of accounting, recording and reporting transactions and interpretation of data for decision-making purposes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 607. Business Intelligence 2 Units
Prerequisite(s): Admission to program.
Description: Introduction to the field of business intelligence, including descriptive, predictive and prescriptive analysis of business data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 608. Managerial Accounting 2 Units
Prerequisite(s): Admission to program.
Description: The use of accounting information to support managerial decision-making and business planning. Topics include cost-volume-profit analysis, budgeting and direct costing versus absorption costing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EMBA 609. Financial Management I 2 Units
Prerequisite(s): Admission to program.
Description: Introduction to financial concepts. Topics include the time value of money, analysis of risk and return, valuation of stocks and bonds and related concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EMBA 610. Marketing Management I  
Prerequisite(s): Admission to program.  
Description: Coverage and application of marketing management topics, including segmentation/targeting/positioning, buyer decision making, product/service strategy, promotional decisions, and pricing strategy. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 611. Financial Management II  
Prerequisite(s): Admission to program.  
Description: Examines the capital investment decision-making process, cost of capital, financing (capital structure) decisions and related topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 612. Marketing Management II  
Prerequisite(s): Admission to program.  
Description: Part two of marketing management involves expansion of product, distribution/place, and promotions in creating integrated marketing strategies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 613. Leading Organizations  
Prerequisite(s): Admission to program.  
Description: Theories of influence, leader behaviors, situation, followership, work teams and transformational leadership. Practical development of self-knowledge, self-confidence and choosing to lead. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 614. Managing Global Challenges  
Prerequisite(s): Admission to program.  
Description: Foundations of the global economy, current trends in the global business environment and issues facing international organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 615. Operations Management  
Prerequisite(s): Admission to program.  
Description: Application of operation strategies and decisions, including process selection, capacity planning, lead time management and process improvement. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 616. Corporate Entrepreneurship  
Prerequisite(s): Admission to program.  
Description: The course introduces entrepreneurship in the corporate setting, how it differs from individual entrepreneur activities, and models of entrepreneurial activities in an established organization. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 617. Business Strategy and Public Policy  
Prerequisite(s): Admission to program.  
Description: This course examines how public policy decisions made at the federal and state levels influence business decision making. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 618. Complex Organizational Change  
Prerequisite(s): Admission to program.  
Description: This course examines both the content and process of complex organizational change. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 619. Negotiations and Conflict Resolution  
Prerequisite(s): Admission to program.  
Description: The course focuses on developing negotiating skills and becoming a more confident and judicious negotiator. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 620. Strategic Management  
Prerequisite(s): Admission to program.  
Description: Strategic management consists of top management decision-making regarding business, corporate & international strategies, as well as issues influencing the implementation of those strategies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
EMBA 650. Special Topics  
Prerequisite(s): Admission to program.  
Description: Special Executive MBA elective course offerings that focus on a range of topics including (but not limited to): branding, business and marketing analytics, and financial modeling. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

Exercise Physiology (EXP)  
EXP 501. Applied Exercise Physiology  
Prerequisite(s): Consent of instructor.  
Description: Selective review of the pertinent areas of basic physiology and the application of this knowledge to exercise conditions. Consists of both lecture and laboratory format. Fall. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
Prerequisite(s): EXP 501 or consent of instructor.  
Description: Effects of exercise to prevent coronary heart disease and atherosclerosis; specific effects of exercise on the established risk factors. Exercise as a rehabilitative measure in heart attack recovery. Spring. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### EXP 503. Clinical Exercise Physiology
**Prerequisite(s):** EXP 502 or consent of instructor.
**Description:** This course provides students with in-depth content regarding the physiology of exercise specifically related to clinical populations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 600. Physiology of Exercise
**Prerequisite(s):** EXP 501 and EXP 605 or consent of instructor.
**Description:** Effects of physical activities and work-related stress on the human organism. Includes energy liberation, circulation and respiration, physical work capacity, physical training, energy cost of various activities, nutrition and performance, temperature regulation, factors affecting performance and fitness, physiology of various sport activities. Laboratory demonstrations and projects and discussion of current literature. Spring.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 601. Laboratory Methods in Exercise Physiology
**Prerequisite(s):** Consent of instructor Basic laboratory techniques in Exercise Physiology will be covered, including: oxygen consumption, strength measurement, body composition, etc.
**Description:** General concepts of data collection including validity and reliability will be emphasized. Scientific writing skills will be developed through the use of lab reports. Experimental design and analysis will be briefly discussed. Fall.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 602. Biochemistry of Exercise
**Prerequisite(s):** EXP 600 or consent of instructor.
**Description:** Examination of nutritional, energetic and metabolic aspects of exercise. Emphasis on various biochemical control mechanisms that function during exercise and biochemical adaptations that occur through exercise training. Spring.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 603. Seminar in Exercise Physiology
**Description:** Reviews, presentations and discussions of current topics in exercise physiology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 604. Advanced Topics in Exercise Physiology
**Prerequisite(s):** EXP 600 or consent of instructor.
**Description:** Independent study under the guidance of a selected faculty member.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 605. Human Physiology
**Prerequisite(s):** Consent of instructor.
**Description:** Fundamental mechanisms of human physiology and study of coordinated body functions. Emphasis on neuromuscular, circulatory, respiratory and endocrine systems. Fall.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 606. Case Study Practicum
**Prerequisite(s):** EXP 501/HPES 486, and EXP 502.
**Description:** Analysis and critical review of case studies for special population. Exercise prescription, assessment of test results and lifestyle modifications.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 607. Neuromuscular Exercise Physiology
**Description:** This course provides a foundation for the interaction of the nervous system, musculoskeletal system and the control of human movement.
**Note:** Cross-listed with HSS 597.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 608. Strength and Conditioning I
**Description:** The course provides some of the content to prepare students for certifications offered by the National Strength and Conditioning Association (Certified Strength and Conditioning Specialist, CSCS), USA weightlifting (Sport Performance Coach), Collegiate Strength and Conditioning Coaches Association (Strength and Conditioning Coach Certified, SCCC), National Academy of Sports Medicine (Performance Enhancement Specialist, PES and Corrective Exercise Specialist, CES), and Functional Movement Systems (Functional Movement Screening, FMS).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### EXP 609. Strength and Conditioning II
**Prerequisite(s):** EXP 608.
**Description:** This course is a continuation of EXP 608. It is designed to optimize more practical programming and coaching opportunities. It is designed to prepare students to develop and implement safe and effective programming for a variety of athletic populations through manipulation of programming variables and periodization strategies. This course, as well as Strength and Conditioning I, provides some of the content to prepare students for certifications offered by the National Strength and Conditioning Association, National Academy of Sports Medicine, and Functional Movement Systems Inc.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
EXP 611. Advanced Cardiorespiratory Physiology with ECG 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): EXP 501, EXP 502 and EXP 605 or consent of instructor.
Description: Course delivers an in-depth examination of the pathophysiology of cardiovascular and pulmonary diseased states during resting conditions and their effects on the exercise response. The mechanical and electrical properties of the heart are explored through the interpretation of ECG signals including rate, rhythm, axis, hypertrophy and infarction. Myocardial oxygen consumption, pressure-volume loops, arteriovenous oxygen differences, and the effects of cardiac pharmacology are also reviewed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EXP 620. Exercise Physiology Internship 3-6 Units
Term Typically Offered: Spring Only
Prerequisite(s): EXP 501, EXP 502, EXP 600, EXP 605 and EXP 611 or consent of instructor.
Description: Experience in exercise testing, prescription and leadership are available for cardiac rehabilitation, elderly, pulmonary, orthopedic, sports performance, and other special populations as well as healthy individuals.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

EXP 699. Thesis 1-6 Units
Grading Basis: Pass/Fail
Prerequisite(s): Consent of advisor.
Description: Thesis hours.
Note: Pass/Fail.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Finance (FIN)

FIN 500. Business Finance 3 Units
Prerequisite(s): Admission to MBA program.
Description: An introduction to financial concepts from the corporate perspective. Topics include the basics of financial statements, an overview of the financial markets, risk and return, the time value of money, security valuation using time value concepts, cash flow determination and valuation, and long-term capital investment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 620. Financial Institutions and Capital Markets 3 Units
Prerequisite(s): FIN 600 or MBA 635.
Description: A study of financial services firms including the domestic and international markets in which they operate. Topics include money and capital markets, interest rate theory, security valuation, derivatives and immunization, and the characteristics of a financial services firm.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 630. Investment Analysis 3 Units
Prerequisite(s): FIN 600 or MBA 635.
Description: The analysis of the process and environment of investment under conditions of uncertainty. The relevance, applicability, and durability of “Old Economy” valuation models and analytical techniques in the “New Economy” are explored and assessed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 631. Real Estate Principles 3 Units
Description: The course provides decision makers with an understanding of real estate that will enable them to make informed business and development decisions related to real estate development.
Note: Cross-listed with PLAN 631.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 632. Real Estate Development 3 Units
Description: An introduction to real estate development as an entrepreneurial opportunity and to the study of interrelationship of marketing, finance, property management, site acquisition and disposition.
Note: Cross-listed with PLAN 632.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 633. Real Estate Finance and Investment 3 Units
Description: Introduction to financial and investment analysis with applications to real estate.
Note: Cross-listed with PLAN 633.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 634. Real Estate Development 3 Units
Prerequisite(s): FIN 600 or MBA 635.
Description: An advanced study of one or more selected topics or issues related to the study of Finance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 680. Special Topics in Finance 1-6 Units
Prerequisite(s): Admission to MBA program.
Description: An advanced study of one or more selected topics or issues related to the study of Finance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FIN 698. Research Seminar in Finance 1-3 Units
Prerequisite(s): One 600-level course in finance and permission of departmental chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Franchise Management (FRAN)

FRAN 601. Franchise Fundamentals  
**Term Typically Offered:** Fall, Spring, Summer  
**Description:** Explore the fundamentals of franchising from the franchisee’s point of view. Focus is on the evaluation of franchising opportunities, the legal aspects of franchising, and the development of appropriate strategies for the successful planning, implementation, and launching of a new franchise business.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FRAN 610. Franchise Law  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** FRAN 601.  
**Description:** Gain exposure to the legal and regulatory concepts fundamental to franchising. Coverage focuses on contract and trademark issues in franchising, including: formation of franchise contracts; good faith performance, breach, termination, renewal, and assignment; trademark creation, protection and infringement; remedies; and antitrust and trade secret disputes.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FRAN 620. Buying and Growing a Franchise  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** FRAN 601.  
**Description:** Gain exposure to the financial terms and considerations for becoming a franchisee and growing operations. Topics covered include evaluating funding sources, preparing financial statements, understanding unit economics and cash flow, tracking financials, and developing a business plan.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FRAN 630. Franchise Human Resources Infrastructure  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** FRAN 601.  
**Description:** Understand the principles and practices of effective HR infrastructure design. Course will cover legal aspects of HR, creating job descriptions and setting pay levels, recruiting and hiring processes, onboarding and training programs, and retention initiatives.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FRAN 640. Leading Franchise Teams  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** FRAN 601.  
**Description:** Learn strategies to drive high performance and keep top talent. Focus is on creating your own organizational culture, leveraging franchisor's training and development opportunities, creating development plans, building recognition programs, and reducing turnover.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FRAN 650. Building a Profitable Relationship with Your Franchisor  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** FRAN 601.  
**Description:** Identify and evaluate strategies for growing a franchise business, including multi-branding, cross-branding, acquisitions, new builds, and/or market growth. Specific attention will be paid to franchisor Key Performance Indicators, securing capital, pitfalls to rapid growth, and succession.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

French (FREN)

FREN 500. French Work Exchange  
**Prerequisite(s):** Membership in a University of Louisville Work-Exchange Program with Montpellier administered by the International Center.  
**Description:** Credit awarded upon demonstration of successful completion of course undertaken with prior approval of the department. Cooperating businesses in Montpellier provide jobs for participants who gain practical experience in a French work environment.  
**Note:** Only three credits can be applied to a French major.  
**Note:** May be repeated.

FREN 506. Francophone Women Writers  
**Prerequisite(s):** FREN 321 and FREN 322, or faculty consent.  
**Description:** Readings of literary and non-literary texts by women of the French-speaking world.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 522. French Phonetics and Diction  
**Prerequisite(s):** 6 hours of French at 300+ level or consent of instructor.  
**Description:** Pronunciation, diction, and intonation in theory and practice. Corrective exercises, recordings for the analysis of individual pronunciation problems. Poetry and prose studied in phonetic transcription, using the International Phonetic Alphabet; extemporaneous speaking and prepared readings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 523. Advanced Communication Skills  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** FREN 321 and FREN 322, or faculty consent.  
**Description:** Advanced French language course focusing on written and oral expression through the study of French and/or francophone literary and cultural texts.  
**Note:** Required of all BA and MA majors in French.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
FREN 524. Theory and Practice of Translation  
**Term Typically Offered:** Spring Only  
**Prerequisite(s):** FREN 455.  
**Description:** Discusses translation theory and develops techniques for the effective translation of a variety of materials.  
**Note:** Required of all BA and MA majors in French.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 531. Special Topics in Literature and Cultural Studies  
**Prerequisite(s):** FREN 455 or faculty consent.  
**Description:** An intensive study of an aspect of French or Francophone literature and/or culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 551. French Oral Practicum  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Membership in the UofL work-exchange program with Montpellier administered by the International Center.  
**Description:** Credit awarded upon demonstration of successful completion of course undertaken with prior approval of the department. Cooperating businesses in Montpellier provide jobs for participants who gain practical experience in a French work environment.  
**Note:** Only 3 credits total count toward French minor.  
**Note:** May be repeated for credit.  
**Note:** Taught on Pass/Fail basis.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 552. French Work: Exchange Research  
**Prerequisite(s):** Membership in the UofL work-exchange program with Montpellier administered by International Center.  
**Description:** Credit awarded upon demonstration of successful completion of research project supervised by a French faculty member. Cooperating businesses in Montpellier provide jobs for participants who gain practical experience in a French work environment.  
**Note:** Only 3 credits total count toward French major.  
**Note:** May be repeated for credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 561. Independent Study I  
**Prerequisite(s):** Consent of department.  
**Description:** Independent study in areas not covered in the regular curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 562. Independent Study II  
**Prerequisite(s):** Consent of department.  
**Description:** Independent study in areas not covered in the regular curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 599. Special Topics  
**Prerequisite(s):** Consent of instructor.  
**Description:** Topics of a unique or specialized nature in French language, literature or culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 600. Advanced French Stylistics  
**Prerequisite(s):** Admission to Graduate program in French.  
**Description:** Analysis of French language usage, oral and written, with emphasis on grammar, lexicon, semantics and phonology.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 601. Studies in French Linguistics  
**Description:** Exploration of issues in French linguistics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 602. Studies in French Culture  
**Description:** Exploration of issues in French culture.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 603. Studies in French Media  
**Description:** Exploration of issues in French Media.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 604. Studies in French Literature  
**Description:** Exploration of issues in French literature.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 611. Teaching and Research Methods in French  
**Description:** Introduction to teaching and research methods in French through observation, investigation and practice.  
**Note:** Required of all French MA students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 655. Independent Reading in French  
**Prerequisite(s):** Graduate status.  
**Description:** Readings in literature, civilization, culture, history, or linguistics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 670. Special Topics  
**Prerequisite(s):** Consent of instructor.  
**Description:** Selected topics in French language, literature, or culture. Topics chosen will reflect the needs of the students and the background of the instructor.  
**Note:** May be repeated under different subtitles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
FREN 680. Seminar  
**Prerequisite(s):** Consent of instructor.  
**Description:** Selected writers or personalities in French language, literature, or culture. Topics chosen will reflect the needs of the students and the background of the instructor.  
**Note:** May be repeated under different subtitles.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 690. Thesis  
**Prerequisite(s):** 15 hours of graduate work.

**Description:** Production of a research paper on a French or francophone literary or cultural topic supervised by a French faculty member.

**Note:** Required of all French MA students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

FREN 699. Final Research Project  
**Prerequisite(s):** 15 hours of graduate work.

**Description:** Production of a research paper on a French or francophone literary or cultural topic supervised by a French faculty member.

**Note:** Required of all French MA students.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Geography (GEOG)**

GEOG 500. Globalization Seminar  
**Prerequisite(s):** GEOG 300 or permission of instructor.

**Description:** A discussion-based course that focuses on current events, global economies, and cultural and environmental issues resulting from globalization.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 510. Urbanism in the Global South: Cities and Space  
**Term Typically Offered:** Spring Only

**Description:** This course is a reading-based seminar. We learn about processes and practices within the Latin American and African city from a spatial, cultural, economic and political perspective.

**Note:** Cross-listed with LALS 510 and UPA 652.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 520. Geography and Nutrition Among African and African-American Populations  
**Prerequisite(s):** Consent of instructor.

**Description:** Comparison of geographical conditions, food culture, technology and socioeconomic factors among Africans and African-Americans affecting health and nutrition.

**Note:** Previously cross-listed with PAS 560.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 521. Medical Geography  
**Prerequisite(s):** Faculty consent.

**Description:** Introduction to concepts, methods and tools used to investigate geographic aspects of health and disease. Application of concepts and methods through analysis of health, population and environmental data.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 522. GIS and Public Health  
**Term Typically Offered:** Occasionally Offered

**Prerequisite(s):** Consent of instructor.

**Description:** Application of tools and methods of analysis in geographic information systems (GIS) to public health. Use of ArcGIS software to manage and analyze health, census and spatial data.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 524. Food and Race  
**Description:** This course will serve as a critical analysis of the intersection between race and food/agriculture. Topics covered include: 1) production, preparation and consumption patterns; 2) food production during slavery and sharecropping; 3) modern day agricultural labor; 4) food and health; 5) food and borders; and 6) food and national identity.

**Note:** Cross-listed with PAS 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 529. Geography of Urban Issues  
**Term Typically Offered:** Fall Odd Years

**Prerequisite(s):** GEOG 328, GEOG 558 or comparable Urban Geography and GIS course.

**Description:** Advanced urban geography course with unique geographic perspective for integration of socioeconomic problems in America's metropolitan areas.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 530. Transportation Geography  
**Term Typically Offered:** Fall Odd Years

**Prerequisite(s):** GEOG 200 or consent of instructor.

**Description:** An analysis of distribution and transportation systems as functional entities capable of introducing and reacting to change within the economic region.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 531. GIS & Urban Demographic Analysis  
**Term Typically Offered:** Spring Only

**Prerequisite(s):** GIS knowledge or concurrent tutorial.

**Description:** Demographic analysis through the use of GIS technology. Emphasis placed on metropolitan area characteristics including population change, segregation, ethnic settlement, social and economic stratification and commuting.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GEOG 535. GIS and Retail Site Analysis  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): GIS knowledge or concurrent tutorial.
Description: Retail site analysis through use of GIS technology. Emphasis placed on market demand and supply characteristics. Physical site analysis, demographics, and competitive environment will be examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 536. Sustainable Transportation  3 Units
Term Typically Offered: Fall Even Years
Prerequisite(s): GEOG 200 or permission of instructor.
Description: The course looks into the problems of developing sustainable transportation systems. We will examine the environmental and human problems associated with transportation; including climate change, air quality, consumption of non-renewable resources, safety, congestion and social equity. We will also explore possible solutions to these problems, including pricing, planning, policy, technology and education.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 540. Geography and Human-Environment Interactions  3 Units
Description: The study of interactions between humans and the environment is inherently interdisciplinary and multi-scaler, two of the hallmarks of contemporary geographic research. Students taking this course will be exposed to the theoretical underpinnings of both social and ecological aspects of research. Through in-class discussions of both seminal and contemporary peer-reviewed literature, students will be expected to engage in an interdisciplinary exploration of how studies of human-environment interactions have evolved from disciplinary roots into the large, complex and transdisciplinary projects commonly funded today and expected in the future.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 555. Remote Sensing  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): GEOS 200 or GEOS 301; PHYS 111 or equivalent (recommended).
Description: This course provides an introduction to the theory and application of remote sensing data with weekly lab reports for hands-on-experience in the acquisition and utilization of remotely-sensed data in geographical/environmental research. This course prepares for GEOG 556.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 556. Advanced Remote Sensing  3 Units
Prerequisite(s): GEOG 555 or consent of instructor.
Description: Application of advanced techniques involved in the collection of digital imagery data from aircraft and spacecraft instruments.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 558. Introduction to Geographic Information Systems  3 Units
Term Typically Offered: Occasionally Offered
Description: Introduction to geographic information systems using ArcGIS software, management of relational databases, and manipulation and graphical output of digital geo-spatial data.
Note: May not be taken for credit if credit has been earned in GEOG 357 or GEOG 557.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 559. Advanced Geographic Information Systems  3 Units
Prerequisite(s): GEOG 558.
Description: Application of advanced GIS concepts to real-world projects. An emphasis will be placed on the development of a digital spatial database.
Note: Graduate students must arrange for an additional project for graduate credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 561. Urban Environmental Quality  3 Units
Prerequisite(s): Consent of instructor.
Description: A study of environmental aspects of urban areas and analysis of inter- and intra-city variations in environmental quality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 590. Special Topics  3 Units
Description: Investigation of topics not offered in regular courses. Topic will be announced in Schedule of Courses.
Note: Offered as needed.
Note: May be repeated for different topics up to a limit of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 599. Directed Readings in Geography  1-4 Units
Prerequisite(s): Advanced courses in geography or related fields; permission of major department.
Description: Supervised readings centered around a specific region or topical field for advanced work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 600. History and Philosophy of Geography  3 Units
Description: An explanation of the history of geographic thought and the paradigms that have shaped geography since the late nineteenth century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GEOG 620. Geography & Nutrition Among African and African-American Populations  3 Units
Description: An in-depth examination of the nutritional status of Africans, African Americans and persons of African descent. The course will focus on comparison of epidemiological transition, political economy of nutrition, politics of food welfare programs, food aid, over-nutrition (obesity), under-nutrition and dietary-related diseases among African Americans, Africans and persons including blacks in the Diaspora.
Note: Cross-listed with PAS 660.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 628. Planning History and Issues  3 Units
Prerequisite(s): Consent of instructor.
Description: The history of planning and contemporary issues with an emphasis on roles of planners, zoning and law.
Note: Cross-listed with PLAN 600.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 631. Urban Demography  3 Units
Prerequisite(s): Graduate standing.
Description: Spatial analysis of the distribution, characteristics, growth, and change of the population of a metropolitan area.
Note: Cross-listed with PLAN 618.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 635. Real Estate Market Analysis  3 Units
Prerequisite(s): GEOG 327 or Urban Economics or consent of the instructor.
Description: Covers concepts, methodologies and analytical tools used in urban real estate market analysis, with a particular emphasis on site selection using GIS applications.
Note: Cross-listed with PLAN 614.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 640. Approaches & Methods in Applied Geography  3 Units
Description: Examination of concepts and methods used by applied geographers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 641. Research Design and Proposal Development in Applied Geography  3 Units
Prerequisite(s): GEOG 600, GEOG 640, GEOG 656, GEOG 660.
Description: Provides students with the background needed to design a research study and develop a research proposal and culminates in development of thesis proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 656. Advanced Spatial Statistics in Applied Geography  3 Units
Prerequisite(s): Statistics course.
Description: The analysis of spatial patterns and processes through the use of spatially-based statistics.
Note: Cross-listed with PLAN 615.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 660. Qualitative Methods in Applied Geography  3 Units
Description: An examination of the philosophical underpinnings of the qualitative approach with practical experience in conducting qualitative research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 685. Introduction to Programming for GIS and Spatial Data Analysis for Graduate Students  3 Units
Description: There are two primary goals for this course. First, students will learn introductory computer programming concepts and features. Students will deconstruct examples from a variety of programming and scripting languages (primarily Python, R, VBA, and IDL), learning how to identify common logic, flow control and syntactic features. Students will learn the purpose of these structures and how to start using the programming and scripting environments of common statistics, geographic information systems (GIS) and remote sensing (RS) platforms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 690. Special Topics  1-3 Units
Description: Investigation of topics not offered in regular courses. Topic will be announced in Schedule of Courses. Offered as needed.
Note: May be repeated for different topics up to a limit of 12 hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 691. Research and Independent Study  1-5 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOG 698. Thesis  1-6 Units
Prerequisite(s): Permission of instructor.
Description: Reading, research, and writing of thesis under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Geosciences (GEOS)

GEOS 564. Hydrology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): GEOS 200 or GEOS 301.
Description: Advanced study of the hydrologic cycle, drainage basin analysis, stream flow and flooding, pollution and utilization of water resources.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 565. Natural Hazards 3 Units
Prerequisite(s): GEOS 200 or GEOS 301.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 570. Water Resource Management 3 Units
Prerequisite(s): Consent of instructor.
Description: Water resources form a critical component of any socioeconomic or environmental system. This course provides an analysis of water resource issues impacting these systems including flood and drought hazards, surface and groundwater quantity/quality issues, and energy development. Water legislation and policy aspects are further integrated with these issues at various spatial scales, including case studies from within the US and across international boundaries that lead to conflict. At the outcome of this course students will develop a basic water resource management plan for a watershed in Kentucky.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 571. GIS and Water Resources 3 Units
Prerequisite(s): Consent of instructor.
Description: A study of the application of Geographic Information Science techniques in water resources research and management including: digital mapping of water resources, watershed delineation and modeling atmospheric, surface and groundwater processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 590. Selected Topics in Geosciences 3 Units
Prerequisite(s): Consent of instructor.
Description: A detailed investigation of some restricted topic of geology or related discipline. Topic to be announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GEOS 663. Climate and Environmental Change 3 Units
Description: Global and regional climate change is one of the most pressing issues of our time. In its evolution, the science of climate change has employed a great diversity of techniques to unravel the Earth's climate history on multiple time scales. To this end there now exists a considerable body of knowledge as to the magnitudes and rates of climate and environmental change. However, while the physical basis of the global climate system and its variation are well resolved, there is debate as to the nature of human intervention in the global climate system and consequences of climate change on the natural and human-made environment. As time moves forward toward issues connected to all facets of climate change will become increasingly important particularly in terms of human occupancy and the sustainability of the planet. What is currently missing from debates connected to climate change is an agreed upon understanding the linkages between the physical basis of the global climate system and its connection to human affairs. This deficiency is consequential as the debate has how moved squarely into the public consciousness as a political, economic and social agenda the outcome of which will have a profound effect upon climate policy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

German (GERM)

GERM 500. German Study Abroad 1-15 Units
Prerequisite(s): Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.
Description: Credit awarded upon demonstration of successful completion of program undertaken with prior approval of the department, including a paper or project and an oral or written examination in the language and culture, administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GERM 561. Independent Study 3 Units
Prerequisite(s): Permission of instructor and department.
Description: Independent study in German language, literature, and culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GERM 599. Special Topics 3 Units
Prerequisite(s): Permission of instructor and department.
Description: Topics of a unique or specialized nature in German language, literature or culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GERM 680. Seminar
Prerequisite(s): Consent of instructor.
Description: Selected topics in German language, literature, or culture. Topics chosen will reflect the needs of the students and the background of the instructor.
Note: May be repeated under different subtitles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GERM 690. Thesis
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Graduate Interdisciplinary (GS)

GS 601. Academic Communication in English
1-3 Units
Description: Classes and a range of interactive activities are designed to help international graduate students gain confidence in both academic and conversational English in authentic settings and contexts. Course outcomes include that students will acquire a sophisticated vocabulary and facility with idiomatic language; improve pronunciation, improve understanding of English in academic and nonacademic contexts, improve ability to discuss academic and non-academic topics, current events, and cultural issues; be able to give short presentations and execute small public speaking tasks with greater fluency, accuracy, and confidence.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 611. Seminar: Cultural Resource Management
3 Units
Description: Cultural Resource Management Seminar. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 612. Cultural Resource Management: Field Methods
3 Units
Description: Field Methods in Cultural Resource Management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 650. Directed Readings: Cultural Resource Management
3 Units
Description: Directed Readings on the topic of Cultural Resource Management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 683. College Teaching
3 Units
Description: Analysis of the elements of effective college teaching; observation and evaluation of teaching; opportunities for microteaching; and investigation of rights and responsibilities of faculty members.
Note: Cross-listed with ELFH 683.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 699. Interdisciplinary Research
1-12 Units
Prerequisite(s): Major in Interdisciplinary Studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 700. Administrative Enrollment
0 Units
Description: Administrative Enrollment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GS 799. Doctoral Exam Prep
0 Units
Grading Basis: Pass/Fail
Description: Students preparing for qualifying/comprehensive exams require special permission from both the director of the program of study and the Dean of SIGS to enroll in the course. Counts as full-time just as enrollment in candidacy counts as full time; students who are enrolled in this course are expected to be studying and preparing full time for their exams, just as students enrolled in candidacy are expected to be working on their research and dissertation full-time.
Note: 0-hour course; cannot be repeated more than two times; permission of program director and Dean of SIGS required; course is considered full-time and may not be taken with more than one additional 3-hour course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Health and Sport Sciences (HSS)

HSS 501. Stress and Tension Control
3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): HSS 202 or equivalent.
Description: A study of the physiological, sociological, and psychological stresses and their underlying mechanisms of action. Emphasis on modification of stress via developed proficiency in relaxation techniques. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 503. Obesity: Causes, Control
3 Units
Prerequisite(s): HSS 202 or equivalent.
Description: A study of the physiological, psychological, and sociological factors in the development and modification of obesity. Laboratory experiences in the assessment of obesity will be provided. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 504. Physical Activity and Health
3 Units
Description: A study of the positive and negative influences of physical activity on diseases and infirmities that affect a healthy lifestyle. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 505. Stress and Disease
3 Units
Prerequisite(s): HSS 202 or equivalent.
Description: Relationship of stress to acute and chronic disease and the effects of contemporary stressors on psychophysiological responses. Examination of mechanisms of adaptation, treatment, and prevention. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 530. Nutrition and Athletic Performance  
**Prerequisite(s):** HSS 302 and HSS 303, or consent of instructor.  
**Description:** Principles of nutrition with special emphasis on nutrient and energy needs of athletes of optimal performance.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 564. Women's Health Issues  
**Description:** This course will identify a broad range of health issues that can be unique to women or of special importance to women throughout the world. The course will examine the roles women play as both providers and consumers of health care nationally and internationally.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 565. Nutrition for Children and Adolescents  
**Description:** Nutritional needs during childhood are covered with emphasis on diet evaluation, menu planning and disease prevention. Nutrition units will be developed using the curriculum planning map.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 567. Healthy Sexuality and AIDS Education  
**Description:** A study of the basic competencies required for AIDS/STD education and prevention within the framework of healthy sexual functioning.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 575. Administration of Physical Education Program and Athletics  
**Description:** Administration of the total physical education program on the secondary school level, including units on budget, staff, facilities, programs, equipment, public relations, and evaluation.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 589. Prevention and Care of Athletic Injuries II  
**Prerequisite(s):** HSS 389 or equivalent or consent of instructor.  
**Description:** Focuses on basic anatomy and its relationship in sports-induced injuries. Provides framework for adapting prevention, evaluation, management and rehabilitation techniques to aid in the treatment of athletic injuries.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 597. Special Topics in Health and Sport Science  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Consent of instructor.  
**Description:** Examination of well-defined topics not studied in regular courses. Topics will be announced in Schedule of Courses.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 598. Independent Study in HSS  
**Description:** Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 601. Philosophy of Sport and Physical Education  
**Description:** Study of sport from various philosophical positions. Relation of theories and thoughts about what constitutes sport to particular time periods. Offered as needed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 602. Instructional Technology in Health and Sport Sciences  
**Description:** The course is designed to develop students' technology skills in order to support their activities in K-12 classrooms and other health and wellness settings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 604. Research Methods in HSS  
**Description:** Development of outline for action research project.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 605. Teaching and Learning for Elementary Physical Education  
**Description:** Philosophy, objectives, curriculum and methods of teaching physical education to elementary students. Must be taken prior to student teaching.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 606. Teaching and Learning for Secondary Physical Education  
**Description:** Philosophy, objectives, curriculum and methods of teaching physical education to secondary students. Content-area literacy strategies for physical education will be covered. Must be taken prior to student teaching.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 607. Methods of Supervision in Physical Education  
**Description:** Covers various models of supervision. Several systematic observational data collection systems will be used to develop skills for supervision in physical education.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 608. Curriculum: An Achievement Based Approach 3 Units
Prerequisite(s): Admission to MAT in Physical Education Program.
Description: Presents a variety of curricular approaches to physical education along with activities to help the teacher deliver the content. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 609. Methods in Practical Living: Health 4 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to the MAT.
Description: Designed to cover strategies and methods for delivering health education related to practical living skills. Content-area literacy strategies for health education will be covered. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 610. Experiential Outdoor Education Leadership 3 Units
Prerequisite(s): Admission to MAT in Physical Education Program.
Description: Teaches necessary skills to lead outdoor experiential education programs. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 611. Seminar in Student Teaching in Health and Physical Education 3 Units
Prerequisite(s): Admission to MAT in Health Physical Education P-12 Program.
Corequisite(s): HSS 612, HSS 613 and HSS 615.
Description: Designed as analysis of student teaching activities for the purpose of improving instructional competence, developing professionalism and reflective teaching skills, and understanding the learner within the instructional context. Each graduate student must complete an action research project during student teaching experience. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 612. Student Teaching: Elementary Physical Education 4 Units
Prerequisite(s): Admission to MAT in Physical Education Program.
Corequisite(s): HSS 611 Provides supervised observation, participation and teaching in physical education at the elementary and secondary school levels. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 613. Student Teaching: Middle/Secondary Physical Education 4 Units
Prerequisite(s): Admission to MAT in Physical Education Program.
Corequisite(s): HSS 611 Provides supervised observation, participation and teaching in physical education at the elementary and secondary school level. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 614. Action Research Project 3 Units
Prerequisite(s): Admission to MAT in Physical Education Program.
Corequisite(s): HSS 611 and HSS 612.
Description: Each graduate student must complete an action research project during the student teaching experience. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 615. Student Teaching: Health Education 4 Units
Description: Five weeks of supervised observation, participation, and teaching health education in middle and high schools. Must be taken concurrently with HSS 612 and HSS 613. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 618. Diverse Populations in Physical Activity and Health 3 Units
Description: The study of social and cultural system of diverse groups, related to physical activity and health. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 619. Practicum: Psychomotor Assessment of Dysfunctions in Adapted Physical Activity 3 Units
Description: Administration of tests of psychomotor functioning; interpretation of findings; writing the educational diagnosis; participation in multidisciplinary settings. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 620. Instructional Design in Adapted Physical Activity 3 Units
Prerequisite(s): Background in physical education and/or special education, or consent of instructor.
Description: Designed to provide knowledge and understanding which will enable students to plan and conduct diversified programs of developmental activities, games, sports, and rhythms suited to the interests, capabilities, and limitations of typical students. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 621. Diagnostic/Assessment in Adapted Physical Activity 3 Units
Description: Instructional intervention applied to the physical education setting; emphasis on design, implementation and evaluation of assessment tools and procedures in programs for the disabled. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 625. Instructional Leadership in Physical Education 3 Units
Description: A critical examination of the current knowledge base and best practices in K-12 physical education instruction, programming, assessment and professional development. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 629. Introduction to Health Consultation 3 Units
Prerequisite(s): HSS 501 and HSS 503.  
Description: Study of the basic skills required for health behavior change using a health counseling approach with emphasis on the development of skills needed to design and facilitate health counseling programs. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 630. Nutrition and Athletic Performance 3 Units
Prerequisite(s): College nutrition course or consent of instructor.  
Description: Principles of nutrition with special emphasis on nutrient and energy needs of athletes for optimal performance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 631. Leadership in Health Promotion 3 Units
Description: Analysis of administrative and organizational factors of health education and promotion from within the program, within the organization, and between organizations. Emphasis will be placed on policy making, administration, and functional issues such as collaboration and consultation at the organizational level.  
Note: Cross-listed with HSS 531.

HSS 649. Psychological Aspects of Physical Education and Sport 3 Units
Description: Analysis of the interaction among personality, motor ability, group dynamics, and environment in physical education and sports performance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 650. Personality and Social Development in Sport 3 Units
Description: Systematic study of man’s behavior in sport in relation to his social environment. Emphasis on the relationship between physical activity and interpersonal competence, attitudes, personality and aggression. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 655. Current Trends and Studies in Health and Sport Sciences 3 Units
Description: Examination of current literature, research and trends in HSS. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 659. Motor Control and Learning: Lab 3 Units
Description: Experiments in motor learning that promote the use of basic apparatus and practical applications of research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 660. Motor Control & Learning 3 Units
Description: Analysis and critical review of literature on selected topics relating to motor control and learning. Emphasis on research in the area of motor learning. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 663. Sexuality Education 3 Units
Description: Survey of the dynamics of family life and parenting skills. Scope of family life education, methods, source materials and current issues. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 669. Administering Health Promotion and Disease Prevention Programs 3 Units
Prerequisite(s): A year of sport management or consent of instructor.  
Description: Special problems in administration of health promotion and disease prevention programs in a variety of community organizations. Program planning and organization; financing and budgeting; measuring program effectiveness; integration of health promotion and disease prevention programs and strategies with existing healthcare delivery systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 675. Health Promotion and Disease Prevention at the Individual Level 3 Units
Description: Techniques for identifying patterns of health-negative behaviors and life-style patterns on the part of an individual and health-negative circumstances in an individual’s immediate environment. Development, implementation, and evaluation of person-focused changed strategies designed to eliminate, offset, and/or minimize the effects of health-negative behaviors and microenvironmental factors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 676. Community Health Promotion and Disease Prevention 3 Units
Description: Analytic techniques for identifying health-negative factors in the organizational and community setting; developing, implementing, and evaluating strategic plans and programs for health promotion and disease prevention at the organizational and community level. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 684. Program Planning in Health Education and Promotion 3 Units
Description: Effective design, implementation, and evaluation of health instruction within the school and community setting. Emphasis on the development of sequential learning opportunities designed to meet individual and societal health needs and interests. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HSS 690. Seminar in Comparative Analysis 3 Units
Prerequisite(s): At least one graduate methods course.
Description: Qualitative Comparative Analysis is a method of doing cross-case analysis with a specific focus on the influence of context as it relates to health and prevention.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 692. Cooperative Internship/Practicum 1-3 Units
Prerequisite(s): Completed 21 hours toward degree; completed 6 hours of HSS courses.
Description: Supervised practical work experience in an organization or business related to the student's academic field, area of specialization, or career interest.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 697. Special Topics in Health and Sport Sciences 1-3 Units
Description: Examination of one or more selected topics in the study of Health and Sport Sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 699. Directed Readings in Health and Sport Sciences 1-3 Units
Description: Supervised readings and written project relating to a specific research topic in health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HSS 789. Advanced Research Design 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): ELFH 701, and either ELFH 600 or EDAP 639, or permission of instructor.
Description: Discussion of quantitative research methods and their application to the design of a study. Emphasis on designs for causal inferences about the effects of an intervention on outcomes variables, especially quasi-experimental designs.
Note: Cross-listed with ECPY 789, EDAP 789, and ELFH 789.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Healthcare Administration (HADM)

HADM 624. Management Accounting and Cost Analysis for Healthcare 1.5 Units
Description: Study of accounting and financial management procedures and techniques in the healthcare industry. Examines accounting problems unique to the healthcare industry. Applies general accounting analysis and management accounting techniques to healthcare settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 625. Healthcare Quality and Operations Management 1.5 Units
Description: Reviews the field of operations management relating to the healthcare market. Examines the relationship between operations research and the management of complex healthcare delivery organizations. Focuses on formulating competitive strategies in operation management decision areas including system design, quality measurement, and productivity analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 626. Healthcare Marketing 1.5 Units
Description: Focuses on the application of marketing concepts in healthcare organizations, specifically hospital, insurance, and physician markets. Application of marketing concepts such as market segmentation planning, positioning and product mix.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 627. Management of Health Services Organizations 1.5 Units
Description: A systematic study of the roles of health services managers and the organizational and environmental context within which they work. An analysis of healthcare organizations with emphasis on management structures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 628. Medical Informatics 1.5 Units
Description: Surveys the use of information systems in healthcare, emphasizing strategies useful in system development and acquisition. Topics include: history of healthcare information systems; applications of information technology to healthcare delivery; how to manage information technology; and information technology as an enabling technology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 629. Healthcare Finance 1.5 Units
Prerequisite(s): FIN 500 or HADM 625.
Description: Applied techniques that enable organizations to efficiently manage their financial resources in the unique healthcare setting. Topics include financial analysis, strategic financial planning, capital project analysis, capital structure considerations, and working capital management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 680. Special Topics in Healthcare 1-3 Units
Description: Advanced study in one or more selected topics or issues related to the study of healthcare administration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HADM 698. Research Seminar in Healthcare Administration 1-6 Units
Prerequisite(s): MBA 663 (or HADM 620) and permission of program head.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
History (HIST)

HIST 501. Independent Study 3 Units
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 502. Independent Study 3 Units
Prerequisite(s): Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 503. Advanced Studies in History 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Consent of instructor.
Description: Selected topics in history that cross traditional geographic or chronological boundaries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 504. Philosophy of History - CUE, WR 3 Units
Description: Speculations on meaning of history from ancient times to present; discussion of such contemporary issues as nature of explanation, objectivity, truth in history.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 505. Women in 19th Century America - WR 3 Units
Prerequisite(s): Completion of ENGL 102 or ENGL 105, or the equivalent.
Description: Course focuses on material conditions, ideologies, and knowledge-systems that shaped American women’s lives in the 19th century, with attention to race, class, and regional differences.
Note: Cross-listed with WGST 533.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HIST 506 / WGST 533 and WGST 633.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 506. American Environmental History - CUE, WR 3 Units
Description: Relationship between economic development and environmental change, focusing on America, pre-colonial to present.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 510. Studies in American History 3 Units
Description: Intensive study of particular topic, to be announced in course schedule.
Note: May be repeated under different subtitles.
Note: Junior standing is recommended.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 511. History of the Old South - CUE, WR 3 Units
Description: Economic life, society, and government in the southern states from colonial times to the Civil War.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 512. History of the Jews in America - CUE, WR 3 Units
Description: The experience of Jews in America from the seventeenth century to the present, with attention to topics such as demography, the immigrant experience, anti-Semitism, religious movements and cultural developments.
Note: Approved for the Arts and Science upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 513. U.S. Social Justice Movements 3 Units
Prerequisite(s): Junior standing.
Description: Course will begin with abolitionism, then concentrate on social justice upsurges of the 20th century, with emphasis on women in the civil rights and Black liberation movements.
Note: Cross-listed with WGST 513, PAS 513, SCHG 513.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 514. United States Peace Movement - CUE, WR (3 Units)
Description: History of the peace movement in the United States from the beginning to the present. The course also examines nonviolent civil disobedience throughout U.S. history. Concentration on the twentieth century with the main focus being the Vietnam anti-war movement.
Note: HIST 314 is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 516. History of American Civil Liberties - WR (3 Units)
Description: Surveys the history of American civil rights, especially voting issues and civil liberties, especially speech and press issues, from colonial origins to present.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 518. Antebellum United States, 1800-1860 - CUE, WR (3 Units)
Prerequisite(s): 60 credit hours completed.
Description: An intensive study of the social, economic, political and intellectual aspects of United States history between the Era of the Early Republic and the eve of the Civil War.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 519. Gilded Age and Progressive Era United States, 1877-1929 - WR (3 Units)
Description: An intensive study of the social, economic, political and intellectual aspects of American History from the end of Reconstruction to the beginning of the Great Depression.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 521. Colonial America to 1765 - CUE, WR (3 Units)
Prerequisite(s): 60 credit hours completed.
Description: History of North America, focusing on the British Colonies, beginning with the first native Americans, to the end of the Seven Years War.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 522. The American Revolution and the Confederation - CUE, WR (3 Units)
Prerequisite(s): 60 credit hours completed.
Description: An intensive study of the American Revolution and of the background of the Constitution.
Note: Approved for the Arts and Sciences upper-level requirement in written Communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 524. United States Civil War and Reconstruction - CUE, WR (3 Units)
Prerequisite(s): 60 credit hours completed.
Description: Political dissolution of the 1850s; political, social, economic, constitutional, and military events of the Civil War; the Reconstruction era.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 528. Recent American History, 1929-1945 - CUE, WR (3 Units)
Prerequisite(s): 60 credit hours completed.
Description: An intensive study of the economics, policies, and social and intellectual developments of the Great Depression and World War II years in the United States.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 529. Recent American History, 1945 to Present - CUE, WR (3 Units)
Prerequisite(s): 60 credit hours completed.
Description: An intensive study of the economics, politics, and social and intellectual developments of the modern period in the United States.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 530. History of Radio - CUE 3 Units
Term Typically Offered: Spring Odd Years
Description: This course explores the history of radio broadcasting from its beginnings to the present, with a focus on the way radio both reflected and shaped the political, cultural, technological, and economic history of the twentieth century. The primary focus is on radio in the United States, but the radio in other national and regional contexts is also considered. While the course devotes most of its attention to radio's so-called 'golden age' from the 1920s to the 1940s, there is also ample discussion of radio during the television and internet eras.
Note: It is recommended that students have completed HIST 304 before taking this course.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 533. Twentieth-Century Latin America - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The history of Latin America since 1900, with special emphasis upon the problems of social change and revolution.
Note: HIST 332 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 534. The U.S. and Latin America - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The history of the international relations of the United States with the nations of Latin America, emphasizing economic, political, and ideological development.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: HIST 314 is recommended.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 535. The History of Mexico: Pre-Columbian to the Present - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): 60 credit hours completed.
Description: Covers the history of Mexico from the Pre-Columbian period to the present, with emphasis on the nineteenth and twentieth centuries.
Note: HIST 331 or HIST 332 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 537. Black Radicalism 3 Units
Description: Modern Black Nationalists, Marxists, and Black Panthers in the U.S., and their programs, ideologies, and behaviors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 540. Advanced Studies in History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Advanced study of a special topic; meets established guidelines for WR courses; writing and rewriting of papers throughout the term.
Note: Junior standing is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 542. Studies in Graeco-Roman History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Topics to be chosen by instructor (e.g., the Ancient Historians).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 547. Studies in Russian History - CUE, WR 3 Units
Description: Topics to be chosen by instructor (e.g., the early church, formation of the Russian state, administration, liberalism, the purges).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 550. Studies in Ancient History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: In-depth examination of special topics in ancient history.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 551. Studies in Medieval History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Intensive work in selected periods of medieval history (e.g., High Middle Ages, Europe in the fourteenth and fifteenth centuries).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 555. English Medieval History, 1066 to 1500 - WR 3 Units
Description: An analysis of the political, economic, and social factors contributing to the development of the English nation from the Norman Conquest to the Wars of the Roses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 559. U.S. and the Cold War Policy - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: This course examines U.S. diplomacy during the Cold War (1945-1989).
Note: HIST 314 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 561. U.S. and Vietnam - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Analysis of diplomatic relations between the United States and Vietnam, concentrating on the 20th Century.
Note: HIST 314 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 563. The Middle Eastern Wars - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: European technological superiority and Ottoman defeat. The Austrian and Ottoman wars. Balkan Wars. World War I. Turkish War of Independence.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 564. Byzantium and Islam 3 Units
Description: This course will examine the relationship between the Byzantine state and the medieval Islamic caliphates and empires. The class will begin in the 6-7th centuries and continue onwards until the fall of the Byzantine Empire in the middle of the 15th century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 571. The Renaissance - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The Italian urban powers; Hundred Years’ War after 1415; Church and society on the eve of the Reformation; Italian and Northern humanism; invasion of Italy; early explorations.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 572. Age of the Reformation - WR 3 Units
Description: Intensive examination of causes of the Reformation, the program of the Reformers, the nature of the Roman Catholic Counter-Reformation, and the character of the sixteenth century.
Note: HIST 352 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 577. The French Revolution and Napoleon - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The Old Regime; influence of the Enlightenment; causes of the Revolution; courses and significance of the Revolution; emergence of Napoleon; rise and fall of the Empire.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 579. History of European Ideas: Selected Topics - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Selected topics on thinkers in the arts and sciences from one or more generations of European thought between the age of Charlemagne and the present. Includes the influence of ideas on their immediate society as well as on European culture and history.
Note: Topics will be announced in the Schedule of Courses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 582. Contemporary Europe 1945-Present - CUE, WR 3 Units
Description: History of Europe from the postwar era to the present.
Note: Approved for the Arts and Sciences upper-level requirement in written communication.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 583. Women in the Twentieth Century in Europe and the U.S. - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: The history of women in Western society, including Europe and the U.S. in the twentieth century. Includes political, economic, social, and cultural developments.
Note: Junior standing is recommended.
Note: Cross-listed with WGST 531.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for HIST 583/WGST 531 and WGST 631.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 584. Women in East Asian History 3 Units
Description: The history of women in China from ancient times to the twentieth century, with comparisons to women's experiences in Japan, Korea, and Vietnam.
Note: Cross-listed with WGST 584.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 587. The Russian Revolutions - WR 3 Units
Description: Intensive examination of the Russian revolutions of 1905 and 1917, their chronology, their causes, historiographical issues.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 588. Feminism in Western Civilization, 1790-1920 - WR 3 Units
Description: Comparative analysis of feminist movements in United States, Britain, and Europe, stressing intellectual background, social composition, goals, and political strategies.
Note: Junior standing is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for HIST 588 or WGST 530 and WGST 630.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 589. History of American Sexualities - WR 3 Units
Description: Focuses on sexual behaviors and meanings in America from the Colonial period to the late twentieth century, and how sexual meanings impact on people's identities, choices, and social positions. Also concerns the interaction of gender, race, and class.
Note: HIST 211 and HIST 212 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for this course and WGST 532.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 590. Studies in African History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: Intensive study of a particular topic chosen by the instructor (e.g., slavery and the slave trade, traditional kingdoms).
Note: Cross-listed with PAS 590.
Note: Junior standing and completion of 9 hours of HIST and/or PAS are recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 591. Civilizations of Ancient and Medieval India - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: An introduction to the civilizations of the Indian subcontinent until the eighteenth century. It covers history, interpretive studies and selected literary, religious, and philosophical works, and visual arts.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 592. Civilizations of Modern India - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: An introduction to the civilizations of the Indian subcontinent since the eighteenth century. It covers history, interpretive studies and selected literary, religious and philosophical works, and visual arts.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 593. American Image of the Middle East - CUE 3 Units
Prerequisite(s): 60 credit hours completed.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 594. Studies in Middle Eastern History - WR 3 Units
Description: Selected topics in Middle Eastern history and societies.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 595. Principles of Cultural History - WR 3 Units
Description: The study of major systematic views of the development of Western culture.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be received for this course and HUM 595.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 596. History of the Future - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: A conceptual approach that presents the premise that the history of the future is, in reality, the history of the present and the past.
Note: Junior standing is recommended.
Note: Approved for Arts & Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 597. Introduction to Public History 3 Units
Description: Introduction to nature, history, and methods of public history. Emphasis on relationship of historical scholarship to nonacademic applications.
Note: Faculty consent is recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 598. Nationalism and Modernity in East Asia 3 Units
Description: The creation of modern nation-states in China, Japan, and Korea from 1840 to 1945.
Note: Cross-listed with AST 598.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 599. Oral History - CUE, WR 3 Units
Prerequisite(s): 60 credit hours completed.
Description: A study of the nature and development of oral sources in history, the creation and evaluation of them, and their application to research and teaching.
Note: Faculty consent is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 600. Directed Study 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 601. Directed Study 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 602. Directed Study 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 603. Thesis 3-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 605. Research Methods and Materials 3 Units
Prerequisite(s): Graduate students only.
Description: Techniques of historical research, analysis, organization, and writing; documentation, historiography; use of research libraries, manuscript depositories and electronic resources. Experience in analysis, research, writing, and criticism.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 607. Oral History 3 Units
Description: An introduction to the method and theory of oral history. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 608. Practicum in Public History 3 Units
Prerequisite(s): A minimum GPA of 3.0 overall and in History.
Description: Supervised experience in a public history setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 610. Introduction to Historic Preservation 3 Units
Description: An introduction to historic preservation. Includes history and theory of historic preservation, law, government and preservation, strategies for conserving historic resources, and local initiatives.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 611. Studies in American History 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 612. Studies in American History 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 621. Seminar in American History 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 622. Seminar in American History 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 629. Studies in Military History 3 Units
Description: Advanced reading in the fundamental works of military history.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 641. Seminar in Modern World History 3 Units
Description: Graduate readings course in a topic or geographic area of world history.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HIST 650. Seminar in Ancient History
Description: In depth examination of a topic in ancient history. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Prerequisite(s): Junior standing; admission to Divisional Honors Program.
Description: An intensive examination of a topical area in Humanities undertaken with a designated faculty director.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HIST 651. Studies in Medieval History
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 652. Seminar in Early Modern European History
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HIST 655. Seminar in the History of Modern Europe
Prerequisite(s): Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 hours credit in the department.
Description: Consent of Division chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 502. Independent Study
Prerequisite(s): Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 hours credit in the department.
Description: Consent of Division chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 505. Humanities Study Abroad
Prerequisite(s): Participation in the University of Louisville study abroad program or a program approved by the Humanities Division.
Description: Credit awarded upon demonstration of successful completion of program, including a paper or project and an oral or written examination administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 509. Interdisciplinary Approaches: Arts and Humanities - CUE, WR
Prerequisite(s): Junior standing; majors only.
Description: Methods and theories in interdisciplinary thinking and research, emphasizing (1) the interrelationships of the disciplines, (2) the importance of synthesizing art, theatre, literature, music, philosophy, and religion in a cultural context, and (3) the critical examination of issues arising from fields outside the Humanities that have significant impact on and synergy with the Humanities.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HUM 509 and HUM 609.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

HUM 650. Honors Thesis in Humanities - WR
Prerequisite(s): Junior standing; admission to Divisional Honors Program.
Description: An intensive examination of a topical area in Humanities undertaken with a designated faculty director.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HUM 651. Studies in Medieval History
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 652. Seminar in Early Modern European History
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 655. Seminar in the History of Modern Europe
Prerequisite(s): Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 hours credit in the department.
Description: Consent of Division chair.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HRMN 660. Methods and Theories in the Study of Religion - CUE, WR
Prerequisite(s): Completion of 90 hours and permission of instructor.
Description: A survey of major theories and methodologies in the academic study of religion from a historical perspective.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HUM 660 and HUM 609.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

HUM 600. Honors Thesis in Humanities - WR
Prerequisite(s): Junior standing; admission to Divisional Honors Program.
Description: An intensive examination of a topical area in Humanities undertaken with a designated faculty director.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

HUM 601. Independent Study
Prerequisite(s): Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 hours credit in the department; consent of Division chair.
Description: Individualized study under the supervision of a sponsoring faculty member that is related to research or practice that is not included in regular courses in the curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 511. Topics in the Interpretation of Sacred Texts 3 Units
Prerequisite(s): Junior standing.
Description: Study in depth of sacred texts and commentaries selected from the major religions of the world: Hebrew Bible, New Testament, Qur’an, Vedas, Bhagavad Gita, and Buddhist sutras.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 512. Topics in Contemporary Religious Thought 3 Units
Prerequisite(s): Junior standing.
Description: In-depth study of selected contemporary writers from major world religions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 513. Topics in Comparative Religions 3 Units
Prerequisite(s): Junior standing.
Description: A critical study of similarities and differences in ideas and attitudes toward significant themes in world religions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 514. Perspectives on Religious Coexistence and Conflict 3 Units
Prerequisite(s): Junior standing.
Description: Through interdisciplinary methodological and theoretical frames of analysis, exemplary cases of global, historical interreligious encounters will be explored.
Note: Credit may not be earned for both HUM 514 and HUM 614.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 515. Topics in Gender and the Humanities 3 Units
Prerequisite(s): Junior Standing.
Description: Specialized topics in Gender and the Humanities will be explored through advanced, interdisciplinary methodological and/or theoretical frames.
Note: Credit may not be earned for both HUM 515 and HUM 615.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 516. Topics in the Histories of Religion 3 Units
Prerequisite(s): Junior Standing.
Description: Advanced study of selected histories of individual religious traditions and/or interaction between religious traditions in different historical contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 518. Arabs & Jews in Israeli & Palestinian Literature & Cinema 3 Units
Prerequisite(s): ENGL 101 and ENGL 102.
Description: Students explore the nexus of Israeli and Palestinian literature and history from the 1948 war to the present, exploring issues of empathy with the other, the commemoration of personal and collective trauma and dispossession, and the construction of peoplehood and national identity.
Note: Cross-listed with HUM 618.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 524. Special Topics in Film Study 3 Units
Prerequisite(s): Junior standing.
Description: An in-depth study on a specific topic to be announced in the Schedule of Courses.
Note: May be repeated up to three times for different topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 550. Internship in Arts and Humanities 3 Units
Prerequisite(s): Consent of chair of Humanities or undergraduate advisor.
Description: An individually arranged internship that combines volunteer work experience with an Arts or Humanities organization or agency with a related academic project.
Note: Course cannot be repeated for academic credit toward the degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 555. Independent Reading 2-3 Units
Prerequisite(s): Honors standing, junior standing, consent of division chair.
Description: Readings in cultural history; oral and written reports.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 561. Selected Topics 3 Units
Prerequisite(s): Junior standing.
Description: Content to be indicated in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 562. Selected Topics 3 Units
Prerequisite(s): Junior standing.
Description: Content to be indicated in the Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 581. Dante 3 Units
Prerequisite(s): Junior standing.
Description: Study of Dante’s life and major works, and the social, political, and cultural milieu which affected his literary career.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 591. Perspectives on Ancient Culture - WR  
**Prerequisite(s):** Completion of 75 undergraduate hours.  
**Description:** Interdisciplinary study of fundamental aspects of ancient culture by means of individual readings and critical writing projects.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 592. Perspectives on Medieval Culture - WR  
**Prerequisite(s):** Completion of 75 undergraduate hours.  
**Description:** Interdisciplinary study of fundamental aspects of medieval culture by means of individual readings and critical writing projects.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 593. Perspectives on Early Modern Culture - WR  
**Prerequisite(s):** Completion of 75 undergraduate hours.  
**Description:** Interdisciplinary study of fundamental aspects of early modern culture (seventeenth and eighteenth centuries) by means of individual readings and critical writing projects.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 594. Perspectives on Modern Culture - WR  
**Prerequisite(s):** Completion of 75 undergraduate hours.  
**Description:** Interdisciplinary study of fundamental aspects of culture in the nineteenth and twentieth centuries by means of individual readings and critical writing projects.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 595. Principles of Cultural History - WR  
**Prerequisite(s):** Completion of 75 undergraduate hours.  
**Description:** The study of major systematic views of the development on Western culture.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** Credit may not be received for this course and HIST 595.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 596. Selected Perspectives in Humanities - WR  
**Term Typically Offered:** Occasionally Offered  
**Prerequisite(s):** Completion of 75 undergraduate hours.  
**Description:** Interdisciplinary topics to be announced in the Schedule of Courses.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 609. Interdisciplinary Theory: Arts and Humanities  
**Prerequisite(s):** Graduate standing.  
**Description:** Methods and theories in interdisciplinary thinking and research emphasizing 1) the interrelationships of the disciplines; 2) the importance of synthesizing art, theatre, literature, music, philosophy, and religion in a cultural context; and 3) the critical examination of issues arising from fields outside the Humanities that have significant impact on the synergy with the Humanities.  
**Note:** Credit may not be earned for both HUM 509 and HUM 609.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 610. Methods and Theories in the Study of Religion  
**Prerequisite(s):** Graduate standing.  
**Description:** A survey of major theories and methodologies in the academic study of religion from a historical perspective.  
**Note:** Credit may not be earned for both HUM 510 and HUM 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 611. Topics in the Interpretation of Sacred Texts  
**Prerequisite(s):** Graduate standing.  
**Description:** In-depth study of sacred texts and commentaries selected from the major religions of the world: Hebrew Bible, New Testament, Qur'an, Vedas, Bhagavad Gita, and Buddhist sutras.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 612. Topics in Contemporary Religious Thought  
**Prerequisite(s):** Graduate standing.  
**Description:** In-depth study of selected contemporary writers from major world religions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 613. Topics in Comparative Religions  
**Prerequisite(s):** Graduate standing.  
**Description:** A critical study of similarities and differences in ideas and attitudes toward significant themes in world religions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 614. Perspectives on Religious Coexistence and Conflict 3 Units
Prerequisite(s): Graduate standing.
Description: Through interdisciplinary methodological and theoretical frames of analysis, exemplary cases of global, historical interreligious encounters will be explored.
Note: Credit may not be earned for both HUM 514 and HUM 614.

For class offerings for a specific term, refer to the Schedule of Classes.

HUM 615. Topics in Gender and the Humanities 3 Units
Prerequisite(s): Graduate standing.
Description: Specialized topics in Gender and the Humanities will be explored through advanced interdisciplinary methodological and/or theoretical frames.
Note: Credit may not be earned for both HUM 515 and HUM 615.

For class offerings for a specific term, refer to the Schedule of Classes.

HUM 616. Topics in the Histories of Religion 3 Units
Prerequisite(s): Graduate standing.
Description: Advanced study of selected histories of individual religious traditions and/or interaction between religious traditions in different historical contexts.
For class offerings for a specific term, refer to the Schedule of Classes.

HUM 618. Arabs and Jews in Israeli & Palestinian Literature & Cinema 3 Units
Prerequisite(s): ENGL 101 and ENGL 102.
Description: Students explore the nexus of Israeli and Palestinian literature and history from the 1948 war to the present, exploring issues of empathy with the other, the commemoration of personal and collective trauma and dispossession, and the construction of peoplehood and national identity.
Note: Cross-listed with HUM 518.

For class offerings for a specific term, refer to the Schedule of Classes.

HUM 624. Special Topics in Film Study 3 Units
Prerequisite(s): Graduate standing.
Description: An in-depth study on a specific topic to be announced in the Schedule of Courses.
Note: May be repeated up to three times for different topics.

For class offerings for a specific term, refer to the Schedule of Classes.

HUM 635. Seminar in Humanities 3 Units
Prerequisite(s): Graduate standing.
Description: Content to be indicated in Schedule of Courses.
Note: May be repeated up to three times for different topics.

For class offerings for a specific term, refer to the Schedule of Classes.

HUM 636. Seminar in Civic Leadership 3 Units
Prerequisite(s): Graduate standing.
Description: Introductory course in Humanities and Civic Leadership, critically exploring notions of the individual, freedom, community, and leadership. Required for MA concentration in Humanities and Civic Leadership.
For class offerings for a specific term, refer to the Schedule of Classes.

HUM 637. American Thought and Culture 3 Units
Prerequisite(s): Graduate standing.
Description: Introduction to history of ideas in terms of twentieth-century American thought and culture, with an emphasis on community and the arts.
For class offerings for a specific term, refer to the Schedule of Classes.

HUM 640. Graduate Reading Knowledge 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Graduate standing or consent of chair.
Description: Intensive language course, designed for graduate students who are preparing for language reading examinations. Provides reading knowledge of a foreign language by focusing on fundamentals and translation.
Note: Cross-listed with ML 640.
Note: The credits may not be used as part of the graduate program.
Note: May be repeated up to 3 times for different languages.

For class offerings for a specific term, refer to the Schedule of Classes.

HUM 645. Thesis Guidance 1-6 Units
Prerequisite(s): Approval of chair.
For class offerings for a specific term, refer to the Schedule of Classes.

HUM 650. Graduate Internship 3-6 Units
Prerequisite(s): Approval of chair or graduate advisor.
Description: Enrollment limited to students pursuing the MA concentration in Humanities and Civic Leadership. An individually arranged internship, combining a volunteer work experience in an Arts/ Humanities organization or agency with a related academic project.
For class offerings for a specific term, refer to the Schedule of Classes.

HUM 651. Independent Study 3 Units
Prerequisite(s): Approval of chair or graduate advisor.
Description: A research project directed by a member of the division faculty involving independent investigation, interpretation, and application, culminating in an academic research paper or directed study project report.
For class offerings for a specific term, refer to the Schedule of Classes.
HUM 652. Independent Study 3 Units
Prerequisite(s): Approval of chair or graduate advisor.
Description: A research project directed by a member of the division faculty involving independent investigation, interpretation, and application, culminating in an academic research paper or directed study project report.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 653. Doctoral Project I 3 Units
Prerequisite(s): Graduate standing.
Description: Doctoral Project I consists of a series of exercises leading to the completion of a four book reviews suitable for publication in journals in the student’s field. The project is directed by a faculty member working with the student individually.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 654. Doctoral Project II 1-3 Units
Prerequisite(s): Graduate standing.
Description: Doctoral Project II consists of a series of exercises leading to the completion of an article suitable for publication in the student's field. The project is directed by a faculty member working with the student individually.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 655. Directed Study Project 3 Units
Prerequisite(s): Graduate standing and approval of the chair or graduate advisor.
Description: A directed study project involving investigation, interpretation, and application culminating in a non-thesis alternative.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 660. Proseminar: Introduction to Doctoral Study 3 Units
Prerequisite(s): Graduate standing, doctoral students only.
Description: An overview of Humanities doctoral studies, from basic doctoral and post-doctoral procedures (seminar and conference papers, journal and book publications, the dissertation, the academic job market, jobs for PhDs beyond academe, and more) through an introduction to the general types of advanced modern and contemporary theory students are likely to encounter in courses that follow.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 661. Historical Perspectives on Arts & Culture I 3 Units
Prerequisite(s): Graduate standing.
Description: Introduction to interdisciplinary critical analysis of the arts and humanities in their historical context providing a foundation for close examination of individual works representative of specific periods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 662. Historical Perspectives on Arts & Culture II 3 Units
Prerequisite(s): Graduate standing.
Description: Introduction to interdisciplinary critical analysis of the arts and humanities in their historical context providing a foundation for close examination of individual works representative of specific periods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 663. Global Perspectives on Arts & Culture 3 Units
Prerequisite(s): Graduate standing.
Description: Advanced exploration of contributions to thought and the arts from those sectors of global society often overlooked: indigenous peoples and peoples of the conceptual East and South. Rather than progressing through historical periods, the course materials are arranged analytically, by theme, such as "Difference," "Empire," "Migration," and "Adaptation."
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 671. Interdisciplinary Seminar I 3 Units
Prerequisite(s): Graduate standing.
Description: Advanced interdisciplinary research and analysis of selected issues in the Arts and Humanities. Content to be indicated in the Schedule of Courses.
Note: May be repeated up to three times.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 672. Interdisciplinary Seminar 3 Units
Prerequisite(s): Graduate standing.
Description: Advanced interdisciplinary research and analysis of selected issues in the Arts and Humanities. Content to be indicated in the Schedule of Courses.
Note: May be repeated up to three times.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 673. Topics in Cultural Theory 3 Units
Prerequisite(s): Graduate standing.
Description: Exploration of advanced theory regarding the formation and maintenance of, and issues in, culture from a social perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 674. Topics in Aesthetic Theory 3 Units
Prerequisite(s): Graduate standing.
Description: Exploration of advanced theory regarding the formation and maintenance of, and issues in, aesthetics and aesthetic approaches to culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
HUM 681. Topics in Aesthetics and Creativity 3 Units
Prerequisite(s): Graduate standing.
Description: Topics to be co-listed with selected departmental offerings.
Term Typically Offered: Fall Only
Prerequisite(s): Graduate standing.
Description: Topics to be co-listed with selected departmental offerings.
Note: May be repeated up to a maximum of five times.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 682. Topics in Studies in Culture 3 Units
Prerequisite(s): Graduate standing.
Description: Topics to be co-listed with selected departmental offerings.
Note: May be repeated up to a maximum of five times.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 683. Exercises in Interdisciplinary Research 3 Units
Prerequisite(s): Graduate standing.
Description: Intensive workshop on the pursuit of research between divergent disciplines, with coverage of theories and methodologies of such work and an individual project drawn from the students’ own areas of interest.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 689. Reading for Comprehensive Examinations 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students who are completing or have completed course work and are preparing for exams.
Description: Directed reading on topics of student’s comprehensive exams; reading lists are negotiated between student and directors of examination areas.
Note: May not be repeated for credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 699. Interdisciplinary Capstone Symposium 3 Units
Prerequisite(s): Graduate standing.
Description: Symposium for candidates completing their content course work during the current academic year.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

HUM 700. Dissertation Research 1-9 Units
Prerequisite(s): Graduate standing and approval of chair or graduate advisor.
Description: Dissertation research
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Industrial Engineering (IE)

IE 515. Operations Research Methods 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): ENGR 330.
Description: Formulation and solution of basic models in operations research. Topics to be covered include applications of linear, integer and nonlinear programming; transportation and assignment problems, and network flows models.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 516. Stochastic Operations Research 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): IE 360 or equivalent.
Description: A selection of the probabilistic topics of operations research are included: queuing, renewal and Markov processes, simulation, decision analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 525. Project Management 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission in IE or EM program or instructor permission.
Description: Use of CPM, PERT, precedence diagramming, resource allocation heuristics, and other techniques for planning, managing, and controlling engineering projects involving research and development, production, maintenance, and construction. Computer procedures and codes for analyzing complex project networks will be covered.
Note: Cross-listed with EM 525.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 540. Robots and Manufacturing Automation 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): IE 360.
Description: Computer aided manufacturing; robot programming, implementation, application, and computer control; research trends; social impacts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 541. Simulation 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): IE 240, IE 250, and IE 360.
Description: The use of discrete event simulation to analyze systems. Topics include Monte Carlo techniques, sampling from and identifying stochastic distributions, estimating performance measures from simulation outputs, validation methods, and SIMIO simulation language.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
IE 561. Developing Decision Support Systems with Excel  
Term Typically Offered: Fall, Spring  
Prerequisite(s): IE 250.  
Description: This course teaches the fundamentals of computer programming using Excel’s macro language, Visual Basic for Applications (VBA), as the language of instruction. The course starts by teaching students to simplify and extend code generated by Excels macro recorder and then builds on that base toward developing applications that analyze information and enhance decision making. This course also provides an introduction to the concepts and methods of Decision Science, which involves the application of mathematical modeling and analysis to management problems. It also provides a foundation for modeling with VBA in Excel.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 563. Experimental Design in Engineering  
Term Typically Offered: Spring, Summer  
Prerequisite(s): IE 360.  
Description: Design of engineering experiments and projects using theory of least squares, analysis of variance, randomized blocks, factorial experiments, nested designs, split plot designs and logistic regression techniques. Covers a combination of analysis by hand and using Minitab statistical software.  
Note: Cross-listed with CECS 563.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 580. Introduction to Human Factors Engineering and Ergonomics  
Term Typically Offered: Fall Only  
Description: The main goal of this course is to introduce students to the study of human cognitive and physical abilities and limitations, and application of that knowledge to engineering design. This course will demonstrate how the application of the human factors and ergonomics principles can improve the design of systems involving the interaction of humans with tools, technology, and the work environment.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 581. Advanced Topics in Human Factors Engineering  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): IE 580.  
Description: The main goal of this course is to learn and apply advanced methods in human factors engineering, as well as newer models, theories, and frameworks related to the field.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 590. Special Topics in Industrial Engineering  
Term Typically Offered: Fall, Spring, Summer  
Description: A theoretical and/or experimental investigation of an industrial engineering design topic.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 600. Additive Manufacturing Processes  
Prerequisite(s): IE 320 or Graduate Standing.  
Description: This course introduces students to additive manufacturing, also known as rapid prototyping or 3D printing, processes. An overview of all additive manufacturing processes is provided. Projects are used to develop in-depth knowledge in key applications of additive manufacturing. Design project gives students an opportunity to apply their knowledge to the design and/or re-design of a component.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 601. Additive Manufacturing Structure Design  
Prerequisite(s): Instructor Permission required.  
Description: This course focuses on the overview of design issues in additive manufacturing (AM), including the design of structures, materials and processes. The students are expected to gain in-depth understanding of the design issues with current AM technologies. Hands-on projects will be assigned that gives the students the opportunity of understanding the design issues and applying the knowledge to the design of functional parts and assemblies.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 602. Graduate Internship in Industrial Engineering  
Grading Basis: Pass/Fail  
Prerequisite(s): Instructor Permission required.  
Description: Supervised professional experience in industry at the graduate level. This course provides the structure and focus for the graduate intern field assignment to ensure that the assignment is appropriate and consistent with the intern’s graduate course of study and professional development. May be repeated for credit.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 610. Foundations of Optimization I  
Prerequisite(s): IE 515.  
Description: Formulation and solution of applicable optimization models for linear, integer, and network problems. Efficient algorithmic methods and use of computer modeling languages and systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 611. Discrete Optimization  
Prerequisite(s): IE 515.  
Description: A study of the techniques and applications of discrete optimization, especially as related to integer and dynamic programming.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  
IE 614. Foundations of Optimization II  
Prerequisite(s): ENGR 330 and IE 610.  
Description: Formulation and solution of applicable optimization models for nonlinear, stochastic programming, robust optimization and convex problems. Efficient algorithmic methods and use of computer modeling languages and systems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
IE 621. Facilities Planning 3 Units
Description: Techniques for planning and design of facilities found in both manufacturing and service industries. Emphasis is placed on location, layout and analysis of facilities, material handling systems, warehouses, and logistic operations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 630. Advanced Production Systems Design 3 Units
Prerequisite(s): IE 421, IE 425, IE 430.
Description: This course is organized around the principles of Lean Manufacturing Engineering. Topics include lean manufacturing, including value, value stream, flow, pull and continuous improvement. Improvement and efficiency are facilitated through a study of factory dynamics, the influence of variability, and "Push and Pull" production systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 631. Advanced Quality Control 3 Units
Prerequisite(s): IE 425, IE 515, IE 541.
Description: Advanced techniques for quality improvement and process control are investigated; these include advanced techniques of SPC, trouble shooting and diagnostics and Taguchi methods of experimental design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 634. Case Studies in Production and Industrial Engineering 3 Units
Prerequisite(s): IE 425, IE 515, IE 541.
Description: Case studies illustrate the application of industrial engineering techniques to the design of production systems, the control of construction projects, and health care delivery systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 640. Applied Systems Analysis 3 Units
Prerequisite(s): IE 360, IE 370, IE 515.
Description: Problem formulation, data collection, alternative design generation, design evaluation, specification, and implementation for large scale systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 642. Statistical Methodology in Simulation 3 Units
Prerequisite(s): IE 360 and IE 541.
Description: Discrete simulation modeling, input probability distributions, random variate generators, output data analysis, validation, variance reduction, experimental design and optimization.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 643. Analysis for Decision Making 3 Units
Prerequisite(s): IE 360 and IE 515.
Description: The role of decision analysis in design; techniques for multicriteria decision analysis; systematic creativity in design.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 650. Material Flow Systems Design 3 Units
Prerequisite(s): IE 515.
Description: Material handling and equipment concepts; computerized plant layout; problem formulation; requirements definition; queueing; location analysis; conveyor theory; simulation; developing and evaluating alternative systems; systems implementation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 657. Models for Design and Analysis of Logistical Systems 3 Units
Prerequisite(s): IE 425, IE 515.
Description: This modeling oriented course for the design, analysis and operation of logistical systems includes topics such as inventory control, transportation, distribution network design, and supply chain management. Both deterministic as well as stochastic models are studied.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 660. Reliability and Maintainability 3 Units
Prerequisite(s): IE 360.
Description: Design, development, and test techniques required to assure the reliability and maintainability of new systems. Design of maintenance programs for new and existing systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 670. Advanced Engineering Economy 3 Units
Prerequisite(s): IE 370.
Description: Inflation; cost of capital; revenue requirements; uncertainty and risk; propagation of errors; Hillier's results; simulation; capital budgeting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 680. Usability Engineering 3 Units
Term Typically Offered: Spring Only
Grading Basis: Pass/Fail
Description: This course exposes students to the constructs of usability, usefulness, user-centered design, and user-experience (UX) and their relation to engineering design. The course covers an interactive evaluation-centered user experience (UX) lifecycle as a template intended to be instantiated in many different ways to match the constraints of a particular development project. The UX lifecycle, sketching, conceptual design, and formative UX evaluation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IE 690. Master of Science Thesis in Industrial Engineering 1-6 Units
Grading Basis: Pass/Fail
Prerequisite(s): Department Chair permission required.
Description: Research on MS thesis project. Grade shall be deferred by the major professor until evaluation of the thesis by the student's committee. Grade on pass-fail basis by the examining committee.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
IE 693. Independent Study in Industrial Engineering 1-12 Units
For class offerings for a specific term, refer to the Schedule of Classes.

IE 694. Advanced Topics in IE 1-6 Units
Prerequisite(s): Consent of instructor.
Description: An advanced course in Industrial Engineering topics not covered by regularly scheduled courses.

IE 697. MEng Thesis in Industrial Engineering 1-8 Units
Prerequisite(s): Instructor permission required.
Description: The Industrial Engineering MEng or MS student carries out an engineering project under the supervision of a faculty mentor, prepares an acceptable written report, and presents a seminar on the project.

IE 699. Industrial Engineering Master's Degree Project 3 Units
Prerequisite(s): Instructor permission required.
Description: The Industrial Engineering MS student is required to perform a study, design, or investigation under the direction of a faculty member. A written thesis is required to be presented orally and submitted to the faculty for approval.

IE 700. Dissertation Research in Industrial Engineering 1-18 Units
Grading Basis: Pass/Fail
Prerequisite(s): Dept Chair permission required.
Description: Research on dissertation project. Grade shall be deferred by the major professor until evaluation of the dissertation by the student’s committee. Graded on a Pass/Fail basis by the examining committee.

Integrative Master of Business Administration (IMBA)

IMBA 600. IMBA-Entrepreneurial Thinking 0 Units
Description: IMBA-Entrepreneurial Thinking
For class offerings for a specific term, refer to the Schedule of Classes.

IMBA 611. Accounting 1.5 Units
Prerequisite(s): Admission to the IMBA program.
Description: The format, understanding and interaction of elements of financial statements, effects of business transactions, accounting cycle and understanding of accounting areas, including tax, audit managerial accounting, etc.
For class offerings for a specific term, refer to the Schedule of Classes.

IMBA 612. Economics of Strategy 3 Units
Prerequisite(s): Enrollment in IMBA program.
Description: This course explores how various economic concepts and tools are used in strategy. Topics include the horizontal and vertical boundaries of the firm, market structure and competition, and strategic positioning.

IMBA 613. Finance 1.5 Units
Prerequisite(s): Admission to the IMBA program.
Description: Introduction to financial concepts. Topics include the time value of money, analysis of risk and return, valuation of stocks and bonds and related concepts.

IMBA 614. Marketing 1.5 Units
Prerequisite(s): Admission to the IMBA program.
Description: Examines the concepts and principles involved in marketing analysis and implementation of marketing strategy in consumer, business to business, and service organizations.

IMBA 615. Opportunity Discovery 1.5 Units
Prerequisite(s): Admission to the IMBA program.
Description: This course acquaints students with the dynamic changes in our economic system and the business opportunities fostered by these changes. The course consists of readings, discussion, and exploration of the opportunity discovery process.

IMBA 620. Leadership 1.5 Units
Prerequisite(s): Enrollment in IMBA program.
Description: Theories of influence, leader behaviors, situation, fellowship, work teams, and transformational leadership. Practical development of self-knowledge, self-confidence and choosing to lead.

IMBA 621. Lean Launchpad I 1.5 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrollment in the IMBA program; IMBA 615.
Description: This experiential course introduces Lean LaunchPad and Value Proposition Canvas. Student teams identify an initial entrepreneurial concept, and use techniques of customer discovery to get out of the classroom and talk to users in order to validate product-market fit.

For class offerings for a specific term, refer to the Schedule of Classes.
IMBA 622. Venture Strategic Analysis  1.5 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrollment in the IMBA program; IMBA 615.
Description: Strategic analysis consists of analyzing information from the internal and external environments to recognize and assess organizations strengths, weaknesses, opportunities & threats. Strategic analysis in existing firms and new ventures is compared and contrasted. Student teams will conduct and present an industry and competitive analysis of their new venture opportunity.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 624. Organizational Behavior  1.5 Units
Prerequisite(s): Enrollment in IMBA program.
Description: Concepts and techniques of individuals and groups including personality, motivation, power and politics, decision-making, group dynamics, job satisfaction, cultural influences and organizational development.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 626. Team Dynamics I  1.5 Units
Prerequisite(s): Admission to the IMBA program.
Description: This course introduces and reinforces successful team processes as well as skills necessary for team success as an individual and as a colleague on a work team.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 630. Project Management  1.5 Units
Prerequisite(s): Enrollment in IMBA program.
Description: This course is to help students plan appropriately, think critically and document a project and to provide instruction and practice in critical thinking in regards to project management.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 631. Lean LaunchPad II  1.5 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrollment in the IMBA program; IMBA 621.
Description: This experiential course builds on earlier courses by expanding Lean LaunchPad methodology and introducing the Business Model Canvas. Student teams continue to get out of the classroom and talk with individuals representing all components of their product/service value chain in order to validate all components of their Business Model Canvas.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 632. Venture Finance  1.5 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrollment in the IMBA program; IMBA 622.
Description: By focusing on entrepreneurship from the investor’s perspective, this course teaches funding strategies with a particular focus on equity investments. Students will build on material learned in previous courses and culminate with a written business plan, complete with a finance model, and a presentation to a panel of venture investors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 634. Financial Strategy  3 Units
Prerequisite(s): Admission to IMBA program.
Description: The microeconomics, markets, and financial strategies of the firm. Topics include market structure, pricing, revenue forecasting, cash flows, capital budgeting and structure decisions, agency, risk management.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 644. Information Technology Strategy  1.5 Units
Prerequisite(s): Admission in the IMBA program.
Description: Exploration of information technology concepts and tools as used in strategy. Emphasis on assessing information technology tools for competitiveness in a digital economy.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 646. Operations Management  1.5 Units
Prerequisite(s): Admission to IMBA program.
Description: Exploration of the major concepts and issues in the field of operations management. Topics include standard terms, basic models, and new concepts to describe service and manufacturing delivery systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 652. Venture Accelerator I  3 Units
Prerequisite(s): Enrollment in the IMBA program.
Description: Support for the development and growth of early stage teams through coverage of advanced entrepreneurship topics, mentoring by venture experts, identification of and application for non-dilutive seed funding, and connections with business mentors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 654. Venture Accelerator II  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrollment in the IMBA program; IMBA 652.
Description: Support for the development and growth of early stage teams through coverage of advanced entrepreneurship topics, mentoring by venture experts, identification of an application for non-dilutive seed funding, and connections with business mentors. Opportunity to participate in the regional and national new venture competitions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 656. Managerial Accounting  1.5 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to the IMBA program and permission of instructor.
Description: This course covers managerial accounting methods and techniques and how they are used to assist organizations to achieve their strategic objectives. Managerial accounting topics include product costing, activity-based costing, planning and controlling costs, budgeting, standard cost systems, new production philosophies, and analytical techniques for decision making.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
IMBA 657. Venture Sales Management 1.5 Units  
Prerequisite(s): Enrollment in IMBA program.  
Description: Coverage of the fundamental topics and subject matter related to the business and practice of selling in a startup venture environment.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 658. Brand Building 1.5 Units  
Prerequisite(s): Enrollment in IMBA program.  
Description: This course is intended for those interested in learning how brands are managed and employed as strategic assets. In addition to those pursuing a career in marketing, the course may be of interest to those contemplating careers in consulting.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 660. Corporate Entrepreneurship 1.5 Units  
Prerequisite(s): Admission to IMBA program.  
Description: This course introduces entrepreneurship in the corporate setting and how it differs from the activities of the individual entrepreneur. Course activities include the development of a team model to support entrepreneurial activities in an established organization.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 662. Corporate and Global Strategy 1.5 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): Enrollment in IMBA program.  
Description: Corporate and global strategy consists of top management decision-making regarding business, corporate & global strategies as well as issues influencing the implementation of those strategies.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 664. Venture Accelerator III 3 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): Enrollment in the IMBA program; IMBA 654.  
Description: Support for the development and growth of early stage teams through coverage of advanced entrepreneurship topics, mentoring by venture experts, identification of an application for non-dilutive seed funding, and connections with business mentors. Opportunity to participate in the regional and national new venture competitions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 668. Business Consulting 3 Units  
Prerequisite(s): Admission in IMBA program and permission of instructor.  
Description: Assist a start-up or existing business in addressing key business needs or problems with a focus on growth opportunities.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 680. Special Topics 1-6 Units  
Prerequisite(s): Admission in IMBA program and permission of instructor.  
Description: An advanced study of one or more selected topics related to business, including a single or combination of business subjects such as management, accountancy or finance.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 698. IMBA Independent Study 1-3 Units  
Prerequisite(s): Admission in IMBA program and permission of associate dean for master’s programs.  
Description: Students will work independently on a program of study and/or research approved and supervised by a member of the faculty.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

IMBA 699. IMBA Internship 3 Units  
Prerequisite(s): Admission in IMBA program, second-year standing, and permission of instructor.  
Description: Students will work with a selected organization and apply expertise learned in the IMBA program to a significant research problem or project.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Latin American and Latino Studies (LALS)

LALS 510. Urbanism in the Global South: Cities and Space 3 Units  
Description: This course is a reading-based seminar. We learn about the processes and practices within the Latin American and African city from a spatial, cultural, economic and political perspective.  
Note: Cross-listed with GEOG 510 and UPA 652.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LALS 680. Issues in Latin American and Latino Studies 3 Units  
Prerequisite(s): Students must be accepted into the UofL Graduate School.  
Description: This course provides an overview of significant historical, political, cultural, and social issues that shape the national identity of Spanish-speaking nations, and those concerning Latinos in the United States, and addresses the challenges they face today.  
Note: Formerly LAS 680.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LALS 681. Latin American Latino Studies Graduate Internship 3 Units  
Description: LALS Graduate Internships provide students the opportunity to enhance their understanding of Latin America by volunteering 80 hours for an organization that serves the Hispanic community in Louisville or abroad.  
Note: Formerly LAS 681.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Linguistics (LING)

LING 518. Foundations of Language 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: A survey of contemporary theories of language from
structuralism to transformational grammar; and of the relationship
of linguistics to literature, psychology, philosophy, reading, and sociology.
Note: Students with credit for LING 325/ENGL 325 may not take this
course.
Note: Cross-listed with ENGL 518.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 520. World Englishes 3 Units
Prerequisite(s): (Undergraduates) LING 325 or ENGL 325, Junior
standing.
Description: Exploration of the historical, social, and political context of
the various varieties of English throughout the world; standardization,
pidgins, and creoles will be investigated.
Note: Cross-listed with ENGL 520.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 521. Teaching Techniques in Foreign Languages 3 Units
Prerequisite(s): Current status as a foreign language teacher or consent
of instructor.
Description: Teaching methods in foreign languages. Recommended for
those teaching or preparing to teach languages.
Note: Cross-listed with M L 521.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 522. Structure of Modern English 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ENGL 102 or ENGL 105, Junior standing.
Description: Examination of the structure of modern English language;
emphasis on grammatical terminology and systems of classification.
Students collect and analyze linguistic examples, spoken and written.
Recommended for prospective English teachers.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 523. History of the English Language 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, and Junior standing.
Description: The evolution of modern English in terms of social, historical,
and linguistic forces which molded it. Emphases include: Indo-European
origins, Germanic sources and Latin, French, and Danish influences;
structural and lexical change; development of dialect differences; colonial
spread of English; role of English in technology; emergence of World
Englishes.
Note: Cross-listed with ENGL 523.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 524. Psycholinguistics 3 Units
Prerequisite(s): LING 518, or ENGL 518, or PSYC 324.
Description: Psychological aspects of language and their significance for
analysis and understanding of cognitive and social processes.
Note: Cross-listed with PSYC 524.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 535. Topics in Applied Linguistics 3 Units
Prerequisite(s): (Undergraduates) LING 325 or ENGL 325, Junior
standing.
Description: This course will focus on one aspect of applied linguistics.
Topics may include discourse analysis, ESL teaching, language change,
gender and language, or other relevant topics in applied linguistics.
Note: May be repeated up to a maximum of three times on different
topics.
Note: Cross-listed with ENGL 535.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 570. Language and Social Identity 3 Units
Prerequisite(s): (Undergraduates) LING 325 or ENGL 325, Junior
standing.
Description: An introduction to the social systems and language varieties
found across societies. Additionally, students will objectively explore both
linguistic and social norms.
Note: Cross-listed with ENGL 570.

For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 590. Special Topics in Linguistics 3 Units
Prerequisite(s): Junior standing.
Description: Intensive investigation of selected topics in current linguistic
theory or practice.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 600. Independent Study 3 Units
Prerequisite(s): 12 graduate hours in Linguistics and consent of chair.
Description: Guided independent in-depth study of a topic in linguistic
theory or practice.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)

LING 603. Syntax 3 Units
Prerequisite(s): LING 518/ENGL 518.
Description: Critical review of recent and current theoretical approaches
to syntax and semantics. Focus on revisions of Chomsky's extended
standard theory and emerging theories. Will survey contributions made
by other approaches.
For class offerings for a specific term, refer to the Schedule
of Classes (http://htmlaccess.louisville.edu/classSchedule/
setupSearchClassSchedule.cfm)
LING 605. Summer Workshop for Foreign Language Teachers 3 Units
Prerequisite(s): Current status as a foreign language teacher, or consent of instructor.
Description: Intensive 2-3 week workshop exploring a pedagogical topic. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 606. Historical and Comparative Linguistics 3 Units
Prerequisite(s): LING 518/ENGL 518.
Description: A historical study of phonological, morphological, and semantic changes in language through the comparative method and internal reconstruction; recent trends in diachronic linguistics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 610. Phonetics and Phonology 3 Units
Prerequisite(s): LING 518/ENGL 518, or consent of instructor.
Description: An introduction to phonetics and phonological theory; study of nature and organization of sound language.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 620. Special Topics in Linguistics 3 Units
Prerequisite(s): LING 325/ENGL 325 or LING 518/ENGL 518.
Description: Intensive investigation of selected topics in current linguistic theory or practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 621. Sociolinguistics 3 Units
Prerequisite(s): LING 518/ENGL 518, or consent of instructor.
Description: The nature of language in social context, presented within the theoretical framework of generative grammar.
Note: Cross-listed with ENGL 621.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 622. Psychology of Second Language Learning and Teaching 3 Units
Prerequisite(s): Current status as a foreign language teacher, or consent of the instructor.
Description: This course will treat psychological variables in the learning and teaching of foreign languages. Special attention will be focused on aptitude, attitude, and motivation as they affect learning and teaching languages.
Note: This is not a methods of teaching foreign languages course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 623. Cultural as the Basis of Foreign Language Teaching 3 Units
Prerequisite(s): Current status as a foreign language instructor.
Description: Emphasis will be placed on techniques for teaching culture through language, for preparing culturally oriented teaching materials (e.g., cultural assimilators), and for carrying out cultural field work abroad.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 624. Language and Cognition 3 Units
Prerequisite(s): LING 518/ENGL 518 or consent of instructor.
Description: Examination of the theory and research on the relationship between fundamental processes of cognition and linguistics processes, e.g., organization of thought, memory, discourse, and text.
Note: Cross-listed with PSYC 624.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 625. The Teaching of English as a Second Language 3 Units
Prerequisite(s): Consent of instructor.
Description: A theoretical and practical approach to teaching English to students for whom English is not a native language. The linguistic bases of English, as well as the application of curriculum principles, will be considered.
Note: Cross-listed with ENGL 625.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 626. ESL Endorsement Portfolio 1 Unit
Prerequisite(s): All other ESL endorsement requirements completed.
Description: Assists post-service teachers in preparing and submitting their ESL endorsement portfolios for review in order to complete the continuous assessment plan for the endorsement. Review takes place in the final phase of the course, of which self-assessment and peer assessment are components.
Note: Restricted to ESL endorsement candidates.
Note: Cross-listed with ENGL 626.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 630. Language and Culture 3 Units
Prerequisite(s): LING 518/ENGL 518 or consent of instructor.
Description: Introduction to the study of language and speaking as part of daily social life, viewed from an ethnographic perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 640. Linguistic Anthropology 3 Units
Prerequisite(s): LING 518, its equivalent, or permission from instructor.
Description: This course provides an introduction to the field of linguistic anthropology. Topics include: the semiotic properties of human language; principles of linguistic and cultural categorization; language use in social interaction; markers of social identity and relationship; registers of social conduct; the textual organization of discourse; the role of discourse in the formulation of norms, and the institutionalization of modes of conduct.
Note: Cross-listed with ANTH 640.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
LING 641. Recent Philosophy of Language  
**Prerequisite(s):** LING 518/ENG 518 or consent of instructor.  
**Description:** Intensive study of current theory and research in the philosophy of language.  
**Note:** Cross-listed PHIL 641.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

LING 690. Seminar in Linguistics  
**Prerequisite(s):** LING 518, or ENGL 518, or consent of instructor.  
**Description:** Selected topics in applied or theoretical linguistics.  
**Note:** Cross-listed with ENGL 682.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

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**Management (MGMT)**

MGMT 500. Introduction to Administrative and Organizational Behavior.  
**Description:** Introduction to administrative and organizational behavior.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 601. The Business Environment  
**Description:** Examines the interactions between organizations and their demographic, legal, technological, social, political, and ethical environments. The major object is to construct a conceptual framework suited to helping managers develop policies and programs that will bring their organizations into congruence with the societies they must serve. The environment of multinational business is also discussed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 607. Advanced Business Statistics  
**Prerequisite(s):** MGMT 501 and matrix algebra.  
**Description:** Four major statistical techniques, analysis of variance, linear regression, multiple regression, and forecasting, will be studied in detail, plus other special topics as time permits. Within each topic attention will be given to the model and its assumptions, the analysis, and applications to business problems. Packaged computer programs will be relied on to facilitate the analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 615. Seminar in Quantitative Methods  
**Prerequisite(s):** MGMT 501.  
**Description:** Mathematical modeling building for the quantitative analysis and optimization of business decisions. Advanced applications in the areas of inventory control, production scheduling, mathematical programming, simulation, and queuing theory and related topics. Not regularly offered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 620. Human Resources Management  
**Description:** This course provides an opportunity for students to develop comprehensive understanding of personnel practices and policies. The main objective is to learn how to develop optimum personnel programs within the business organization. Actual cases are studied, giving the student a realistic understanding of the methods and techniques used in administering a sound personnel.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 630. Labor-Management Relations  
**Description:** A study of labor-management issues with emphasis on (1) the organizing stage, (2) problems in the shop, (3) problems at the bargaining table, (4) labor relations and public policy, and (5) an examination of labor relations overseas. These issues are examined through the intensive analysis of factual descriptions. Students are provided with the opportunity to participate in role playing, prepare arguments, and make decisions.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 640. Organizational Change and Development  
**Prerequisite(s):** MGMT 600 or MBA 610.  
**Description:** Examination of theories and methods utilized to promote purposeful change in organizational systems and processes. Emphasis is placed on organizational development for improving organizational effectiveness. Topics will include team building and survey feedback.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 650. Organizational Structure and Design  
**Prerequisite(s):** MGMT 600 or MBA 610.  
**Description:** Examination of concepts concerning the structures and processes utilized by organizations in managing internal systems and environmental interactions. Topics include information systems, organizational design, and strategic planning as they impact organizational effectiveness.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 684. Managing Creativity and Innovation  
**Description:** A broad overview of innovation, and the managerial decisions that affect innovation performance. Places innovation in its social, economic, technological, and political context.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MGMT 687. New Venture Finance  
**Prerequisite(s):** MGMT 685 or IMBA 622.  
**Description:** Organization and presentation of financing plans for new ventures; securing financial support.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MGMT 689. New Venture Implementation 6 Units
Prerequisite(s): Successful completion of all IMBA modules and enrollment.
Description: Current enrollment in Integrative Global Strategy and Lifelong Learning II. Exploration of topics necessary for the successful implementation of new venture opportunities upon completion of a new venture plan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Marketing (MKT)

MKT 525. Distribution Management 3 Units
Description: Examines the flow of goods and related information from sources of supply to sources of demand with primary emphasis on inventory management, warehousing, transportation, customer service, and network configuration.
Note: This course does not fulfill credit for MBA.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 527. Logistics Management 3 Units
Prerequisite(s): MKT 525 and ACCT 526.
Description: Examines skills required for effective logistics management including leadership, contracts, and decision-making.
Note: This course does not fulfill credit for MBA.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 610. Consumer Behavior 3 Units
Prerequisite(s): MKT 600 or MBA 640.
Description: Information from the behavioral and quantitative sciences which relates to consumer behavior. Presents economic, psychological, communications, and cultural information, and research findings which attempt to describe the morphology and structure of consumer behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 612. Supply Chain Management 3 Units
Prerequisite(s): MKT 600 or MBA 640.
Description: Examines the integration of business processes from end users to original suppliers. E-logistics and purchasing issues are discussed along with the integration of information and product/service flows that add value to customers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 620. Marketing Research 3 Units
Prerequisite(s): MKT 600 or MBA 640.
Description: An application of qualitative and quantitative information relevant to marketing decisions in the organization. Topics include: research design, collection of primary and secondary data, using statistical packages, and employing scanner data and web based techniques for meeting marketing information needs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 630. Sales Management 3 Units
Prerequisite(s): MKT 600 or MBA 640.
Description: A managerial decision approach involving sales planning, and sales operations in the contemporary context of rapid digital communication within the supply chain. Topics include territory management, sales forecasting, relationship building, motivation, recruitment, compensation, and ethical issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 670. Global Marketing 3 Units
Prerequisite(s): MKT 600 or MBA 640.
Description: A managerial approach that centers on the needs of contemporary organizations to identify, understand, and serve global markets. Topics include global research, cultural environments, global sourcing, world customers, pricing, competition, and the evolving political, legal, technological, and social environments of world trade.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 680. Special Topics in Marketing 1-3 Units
Prerequisite(s): MKT 600 or MBA 640.
Description: An advanced study of one or more selected topics or issues related to the study of Marketing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MKT 698. Research Seminar in Marketing 1-3 Units
Prerequisite(s): One 600-level Marketing course and permission of departmental chair.
Description: Graduate-level Marketing research seminars. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Master of Accountancy (MAC)

MAC 600. Master of Accountancy 0 Units
Description: Master of Accountancy
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 620. Advanced Audit and Assurance Services 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: Advanced study of the theory and practice of audit and assurance services, including case studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 622. Advanced Accounting Information Systems 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: Study of the design, implementation, documentation and audit of accounting information systems. Emphasis is placed on internal controls the design of audit trails.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MAC 624. Advanced Topics in Federal Taxation 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: Advanced study of taxation of individuals, estates and trusts, and gifts. Retirement and family tax planning topics are also covered. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 626. Advanced Corporate Financial Reporting 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: Advanced topics in corporate financial accounting and reporting, including consolidation accounting, accounting for foreign currency statements, and business acquisition accounting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 628. Professional Research Tools and Techniques 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course examines the use of professional research tools to resolve complex issues related to financial accounting and reporting, assurance services, and taxation. Students will gain practical experience using research tools widely used in practice by professional accountants. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 630. Ethical Judgment and Decision Making 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course examines ethical judgment and decision making in the context of professional accounting practice. Ethical issues and techniques for dealing with those issues will be examined. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 632. Leadership for Professional Accountants 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course examines theories of leadership and the practice of leadership in professional accounting and business. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 634. User Perspectives on Financial Reporting 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course examines financial statements from a user perspective, and the implications of that perspective on preparers and auditors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 636. Current Topics in Audit and Financial Reporting 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course studies current topics with implications for financial accounting and reporting, and auditing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 638. Data Analytics for Professional Accountants 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course examines data analytics of large and unstructured sources of data, and the implications of big data for auditors, preparers, and users of financial reports. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 640. CPA Preparation and Review AUD 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course prepares students for the CPA exam, the AUD section, and broadens the scope of their knowledge in this area of professional accounting practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 642. CPA Preparation and Review REG 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course prepares students for the CPA exam, the REG section, and broadens the scope of their knowledge in the area of professional accounting practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 644. CPA Preparation and Review BEC 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course prepares students for the CPA exam, the BEC section, and broadens the scope of their knowledge in this area of professional accounting practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 646. CPA Preparation and Review FAR 1.5 Units
Prerequisite(s): Admission to the Masters of Accountancy program.
Description: This course prepares students for the CPA exam, the FAR section, and broadens the scope of their knowledge in this area of professional accounting practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 648. Statistics for Auditors 1.5 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: Data organization and presentation, descriptive statistics, common probability distributions and sampling distributions, regression and inferential statistics, such as confidence intervals and tests of significance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MAC 650. White Collar Crime 3 Units
Prerequisite(s): Admission to the Master of Accountancy program.
Description: This course focuses on the concept, theoretical explanations, the extent and nature of various types of white collar and occupational crime in both public and private sectors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Master of Business Administration (MBA)

**MBA 600. MBA Program**

**Description:** MBA Program

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 601. Strategic Analysis**

**Description:** Strategic analysis consists of analyzing information from the internal and external environments to recognize and assess organizational strengths, weaknesses, opportunities & threats.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 602. Decision Analysis**

**Description:** Data organization and presentation, descriptive statistics, common probability distributions and sampling distributions, regression and inferential statistics, such as confidence intervals and test of significance.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 603. Organizational Behavior**

**Description:** Concepts and techniques of individual and groups including personality, motivation, power and politics, decision-making, group dynamics, job satisfaction, cultural influences and organizational development.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 604. Economics I**

**Description:** Application of supply and demand, elasticity, costs to the goals of the firm. Emphasis is on economies of scale, asymmetric information and marginal analysis.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 605. Managerial Economics**

**Prerequisite(s):** ECON 500 (or ECON 201 and 202); ACCT 500 (or ACCT 201); FIN 500 (or FIN 301); MGMT 201.

**Description:** This course will apply economic concepts to decisions affecting a firm's profit. Topics may include supply and demand, elasticity and market power, competition, pricing strategies, boundaries of the firm, economics of scale and scope, make versus buy decisions, transaction costs, information, game theory, entry and exit strategies, and competitive analysis.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 606. Leadership**

**Description:** Theories of influence, leader behaviors, situation, followership, work teams and transformational leadership. Practical development of self-knowledge, self-confidence and choosing to lead.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 607. Economics II**

**Prerequisite(s):** ECON 500 (or ECON 201 and 202); ACCT 500 (or ACCT 201); FIN 500 (or FIN 301); MGMT 201.

**Description:** This course will apply economic concepts to decisions affecting a firm’s profit. Topics may include supply and demand, elasticity and market power, competition, pricing strategies, boundaries of the firm, economics of scale and scope, make versus buy decisions, transaction costs, information, game theory, entry and exit strategies, and competitive analysis.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 608. Technology Management**

**Description:** Emphasis on technology management as a tool for innovation, exploration and application of the relationships among business strategy, business processes and technology of adoption and use.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 609. Financial Accounting**

**Description:** Fundamental principles of accounting needed by the manager. Topics include the assumptions of accounting, recording and reporting transactions and interpretation of data for decision-making purposes.

For class offerings for a specific term, refer to the Schedule of Classes.

**MBA 610. Organizational Behavior & Human Resource Management**

**Prerequisite(s):** ECON 500 (or ECON 201 and 202); ACCT 500 (or ACCT 201); FIN 500 (or FIN 301); MGMT 201.

**Description:** The learning objective is to understand intra-organizational concepts that influence individual behavior and human resource management. Topics may include motivation, job satisfaction, agency theory, decision-making, group dynamics, recruitment strategies, compensation training, and performance evaluation.

For class offerings for a specific term, refer to the Schedule of Classes.
MBA 611. Managerial Accounting I  
Description: The use of accounting information to support managerial decision-making and business planning. Topics include cost-volume-profit analysis, budgeting and direct costing versus absorption costing. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 612. Finance I  
Description: Introduction to financial concepts. Topics include the time value of money, analysis of risk and return, valuation of stocks and bonds and related concepts. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 613. Managerial Accounting II  
Description: The use of accounting information in business planning, performance evaluation, integrating activity-based costing and the theory of constraints to guide business decisions. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 614. Operations Management  
Description: Application of operations strategies and decisions, including process selection, capacity planning, lead time management and process improvement. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 615. Business Valuation & Analysis  
Prerequisite(s): ECON 500 (or ECON 201 and 202); ACCT 500 (or ACCT 201); FIN 500 (or FIN 301); MGMT 201.  
Description: The course will familiarize students with financial statements to assist in evaluating past, current, and future firm performance. Topics may include financial statement and ratio analysis, articulation of financial statements on a pro forma basis, and alternative firm valuation models. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 616. Finance II  
Description: Examines the capital investment decision-making process, cost of capital, financing (capital structure) decisions and related topics. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 617. Marketing I  
Description: Introduction to, and application of, the fundamentals of marketing management. Topics include consumer and business decision-making, segmentation, positioning and pricing decisions. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 618. Finance III  
Description: Examines working capital management, financing with derivatives, risk management, complex financial decision-making and other topics. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 619. Marketing II  
Description: Introduction to, and application of, the fundamentals of supply chain management. Topics include inventory management, transportation, customer service, warehousing, network design and integrated analysis. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 620. Global Economics  
Prerequisite(s): MBA 605, MBA 610.  
Description: The course objective is to familiarize students with the macroeconomic foundations of the global economy. Topics may include monetary and fiscal policy in an open economy, output determination, trade flows, exchange rates, technology transfer, immigration, emerging markets, and trade blocs. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 621. Global Business  
Description: Foundations of the global economy, current trends in the global business environment and issues facing international organizations. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 622. Project Management  
Description: Project management methodologies and utilization from a business management perspective. Relevant knowledge and skills including project initiation, planning, execution, reporting, controls and termination. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 623. Global Learning  
Description: Study of businesses, practices, cultures and experiences in foreign domains. The course includes an international research trip visiting foreign businesses, operating plants and cultural sites. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 624. Strategic Management  
Description: Strategic management consists of top management decision-making regarding business, corporate & international strategies, as well as issues influencing the implementation of those strategies. For class offerings for a specific term, refer to the Schedule of Classes.

MBA 625. Managerial Accounting  
Prerequisite(s): MBA 605, MBA 610, and MBA 615.  
Description: The course is devoted to structuring accounting information for use by managers in making decisions. Topics may include cost-volume-profit analysis, product costing, capital budgeting, activity-based costing, theory of constraints, balanced scorecard, and economic value added. For class offerings for a specific term, refer to the Schedule of Classes.
MBA 630. Operations: Design and Analysis  
Prerequisite(s): MBA 605, MBA 610, and MBA 615.  
Description: The course introduces standard terminology, basic models, and new concepts of operations management as applied to manufacturing and service firms. Topics may include systems planning, product quality and process capability, capacity planning, facility location and layout, material management, scheduling and process improvement. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 635. Managerial Finance  
Prerequisite(s): MBA 620, MBA 625, and MBA 630.  
Description: Students are exposed to investments, decisions facing the firm through analysis of valuation and risk management. Topics may include valuing securities, project valuation, capital asset pricing and risk adjusted discount rates, decision trees and real options, leasing, acquisitions and divestitures, and new venture finance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 640. Marketing and Distribution Management  
Prerequisite(s): MBA 620, MBA 625, and MBA 630.  
Description: An integrative approach to the study of modern marketing theory and practice utilized to familiarize students with the fundamentals of demand creation and fulfillment. Topics may include market decisions, positioning, differentiation, segmentation, corporate communications, customer service, marketing logistics, and supply chain management. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 641. Professional Development Module-Team Building  
Prerequisite(s): Enrollment in Professional MBA program.  
Description: Various professional development topics such as Communications, Negotiation & Conflict Resolution, Creativity, Team-Building, Governance, Planning and Introduction to Regional Industries. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 642. Managerial Communications 1  
Prerequisite(s): Admission to MBA program.  
Description: Course objective to improve the quality/effectiveness/efficiency of managerial communication (verbal/written/listening) skills. Identify and address many barriers/challenges encountered in organizational settings; explore theoretical and practical solutions. In-class exercises will be evaluated with feedback provided by instructor and classmates. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 643. Professional Development Module III  
Prerequisite(s): Enrollment in MBA program.  
Description: Various professional development topics such as communications, negotiation & conflict resolution, creativity, team-building, governance, planning and introduction to regional industries.  
Note: May be repeated for credit. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 644. Professional Development Module-Business Etiquette  
Prerequisite(s): MBA 605, MBA 610, and MBA 615.  
Description: The course introduces standard terminology, basic models, and new concepts of operations management as applied to manufacturing and service firms. Topics may include systems planning, product quality and process capability, capacity planning, facility location and layout, material management, scheduling and process improvement. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 645. Leadership & Ethics  
Prerequisite(s): MBA 620, MBA 625, and MBA 630.  
Description: Theory and application of leadership and ethical issues including leadership as influence process, followership, developing effective leader behaviors, stewardship affirming ethical organizational culture. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 646. The Economics of Health and Medical Care  
Prerequisite(s): MBA 635, MBA 640, and MBA 645.  
Description: Applied economics in the health service sector and service delivery models of managed care systems. Evaluate models of care and service, considering efficiency, insurance, incentives, quality, and supply and demand. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 648. Managerial Communications 2  
Prerequisite(s): Admission to MBA program.  
Description: Course objective to improve the quality/effectiveness/efficiency of managerial communication abilities. Using interactive exercises in addition to lecture, course will cover oral and written skills essential for managers/leadership team members in communicating with a hostile group, leading meetings/groups, listening, serving/contributing in a team-oriented atmosphere, etc. In-class exercises will be evaluated with feedback provided by instructor and classmates. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 649. Professional Development Module-Inclusive Leadership  
Term Typically Offered: Fall, Spring, Summer  
Prerequisite(s): Admission into the MBA program.  
Description: Upon completion of the course, students should possess a greater understanding of the connection between leadership/workforce inclusiveness in the business environment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 650. Global Business  
Prerequisite(s): MBA 635, MBA 640.  
Description: The course will familiarize students with international finance and global business environment. Topics may include international financial markets, multinational corporations, overseas expansion, organization of international business, global management, marketing, and R&D, and the economic, political, and moral issues associated with globalization. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MBA 655. Strategic Management 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645; must be taken in the final semester of the degree.
Description: The MBA capstone course is broad in scope and integrative of all required courses. The focus is on the strategic analysis, formulation, and implementation issues facing top management. Topics may include competition, core competencies, gaining and sustaining a competitive advantage at the business, corporate, and international levels, and corporate governance, structure, and entrepreneurship. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 660. Executive Effectiveness and Influence 3 Units
Prerequisite(s): MBA 635, MBA 640.
Description: Provides an experiential approach to leadership effectiveness. Discussions focus on classical and contemporary readings. Special emphasis is placed upon communication skills, self-knowledge, critical and creative thinking, and ethical issues in leadership. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 661. Developing Entrepreneurial Competency 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: Skills building approach to improving effectiveness in making discoveries that maximize one's profit and minimize risk. Discussions focus on a variety of classic and contemporary readings. Experimental activities build self-knowledge and development of information processing and decision-making skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 662. Consulting to Entrepreneurial Organizations 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: Assist an existing small to medium sized enterprise in addressing some key business needs or problems with a focus upon growth opportunities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 663. Introduction to the Business of Healthcare Systems 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: Examines topics from various business areas. Possible topics include cost-benefit analysis, managed care issues, information systems and medical informatics; cost concepts and decision making; product costing and accounting systems; operations management-TQM; and healthcare marketing. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 664. Healthcare Policy 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: Elucidates theories of public policy and applies them to health issues. The course covers the evolution of healthcare and discusses policy options. Major issues of health delivery and finance are also covered within this context. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 665. The Free Enterprise System: Ethics, Governance, and Regulation 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: An examination of the checks and balances and interaction between corporate shareholders, boards of directors, the CEO, investment bankers, federal and state regulators, and the political and judicial system. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 667. Healthcare Law 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: Covers the legal aspects of healthcare. This includes the structure of the judicial system, legal procedures, torts, criminal aspects, contracts and corporate liability. Other legal aspects include malpractice, patient rights and the nature of the nursing profession. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 668. Information Technology Management in a Digital Economy 3 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: Provides students with an understanding of the effects of the digital environment on business models and how firms have to adapt to be competitive in a digital economy. Focuses on the management of technology in such an environment, with emphasis on management activities (e.g., planning, organizing, coordinating, assimilating new technologies, evaluating information technology investments, etc.) that will enable firms to make the most effective use of their information technology resources. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 670. Capstone Project I 1.5 Units
Description: The first of two courses designed to provide a team-based experience in identifying, planning, initiating and completing a significant project within a business entity. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 671. Capstone Project II 1.5 Units
Description: The second of two courses designed to provide a team-based experience in identifying, planning, initiating and completing a significant project within a business entity. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 680. Special Topics in Business 1-6 Units
Prerequisite(s): MBA 635, MBA 640, and MBA 645.
Description: An advanced study of one or more selected topics or issues related to the study of business. Topics or issues could be from a single business discipline such as management or from a combination of business disciplines, such as accountancy and finance. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MBA 690. MBA Fundamentals
Grading Basis: Pass/Fail
Term Typically Offered: Summer Only
Prerequisite(s): Admission to the College of Business (Global) MBA degree program.
Description: Course is designed to introduce students to the fundamentals of business in the areas of team building, marketing, finance and quantitative methods. Course will utilize a combination of various student engagement activities including lectures, group discussions, active team-building challenges, completion of online refresher modules, and pre-course assignments.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 695. PDM-Crisis Management
0.25-0.5 Units
Prerequisite(s): Must be enrolled in MBA degree program
Description: A crisis can strike organizations at any time. Whether the organization is crippled or is able to bounce back depends heavily on how well the crisis is managed. This course will expose students to the basics of crisis management: crisis planning, stakeholder analysis, and crisis response strategies. Course will feature a range of crisis activities including team and individual tasks.
Note: Range of activities will vary depending on classroom contact hours.
Note: The whole day session (7 classroom hours) will be valued at 1/2 credit; the one-half day session (3 1/2 classroom hours) will be valued at 1/4 credit.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 696. PDM-Negotiation
0.25-0.5 Units
Prerequisite(s): Must be enrolled in MBA degree program
Description: The purpose of this PDM course is to learn about Negotiations and how to become effective negotiators. It focuses on both concepts and skills, alternating between class discussions and increasingly complex negotiation exercises.
Note: More extensive in-class readings, cases, and role-play opportunities will be featured as part of the whole day session (7 classroom hours valued at 1/2 credit); a reduced number of in-class activities will be utilized for the one-half day session (3 1/2 classroom hours valued at 1/4 credit).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 698. Independent Study
0.5-3 Units
Prerequisite(s): MBA 645.
Description: An advanced independent study of one or more related topics or issues related to the study of business. Topics or issues could be from a single business discipline such as management or from a combination of business disciplines, such as accounting and finance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBA 699. MBA Internship
1-6 Units
Prerequisite(s): 24 credit hours at the 600 level or above; approval of MBA Director or Dean, College of Business.
Description: The experience will provide the student the opportunity to work with a selected organization. The student will apply expertise learned in the MBA Core courses to a significant research problem or project. The student will write a synopsis of the work experience detailing the application of knowledge to the project and the outcomes achieved.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Master of Engineering Residency (MENG)

MENG 600. Master of Engineering Residency
0 Units
Grading Basis: Credit/No Credit
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Master's Candidacy (MAST)

MAST 600. Master's Degree Candidacy
0 Units
Grading Basis: Pass/Fail
Prerequisite(s): Completion of all course work, qualifying exams, required research credit hours and other co-curricular requirements.
Description: Students who are enrolled in degree candidacy are considered full-time students. While in Degree Candidacy, it is the responsibility of both student and mentor to maintain contact to ensure continuous progress towards the completion of the degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Mathematics (MATH)

MATH 501. Introduction to Analysis I - CUE
3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MATH 301, MATH 311 and MATH 325.
Description: Foundations of the real number system, sequences and series, topology of the line, continuity, differentiation of functions of one variable.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 502. Introduction to Analysis II
3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 501.
Description: Riemann integration on the line, sequences and series of functions, uniform convergence, metric spaces.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MATH 505. Introduction to Partial Differential Equations 3 Units
Term Typically Offered: Fall, Summer
Prerequisite(s): MATH 301 and MATH 405.
Description: Techniques for solving standard heat, wave, and potential equations, including discussion of Fourier analysis techniques. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 507. Fourier Analysis 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 301 and MATH 405.
Description: Introduction to Fourier series and transforms. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 520. Theory of Numbers 3 Units
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: A study of the integers and their divisibility properties. Particular emphasis on the theory of congruencies, partitions, prime numbers, Diophantine analysis and quadratic residues.
Note: Credit may be applied towards the MAT but not toward any other graduate degree in mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 521. Modern Algebra I - CUE 3 Units
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325; or consent of instructor.
Description: An introduction to the theory of groups, rings, integral domains, and fields.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 522. Modern Algebra II 3 Units
Prerequisite(s): MATH 521.
Description: Continuation in greater depth of topics introduced in MATH 521; introduction to theory of ideals, field extensions, and abstract vector spaces.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 535. Modeling I 3 Units
Prerequisite(s): MATH 325 or MATH 405 or equivalent.
Description: Introduction to mathematical modeling of discrete and continuous dynamical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 536. Modeling II 3 Units
Prerequisite(s): MATH 535.
Description: Advanced mathematical modeling of discrete and continuous dynamical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 545. Introduction to Fractal Geometry 3 Units
Prerequisite(s): MATH 301 and MATH 325; MATH 501 recommended.
Description: Recursively defined sets and self-similarity; metric spaces and iterated function systems; topological, fractal, and Hausdorff dimensions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 550. Advanced Euclidean Geometry 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): A year of high school geometry; MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Theory of Euclidean geometry contrasted with non-Euclidean from both the axiomatic and algebraic approach. Of special value to secondary teachers.
Note: Credit may be applied toward the MAT but not toward any other graduate degree in mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 551. Geometry 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Study of projective spaces, transformations and invariants. Introduction to related geometries, such as affine, elliptic, and hyperbolic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 555. Advanced Geometry 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Study of projective spaces, transformations and invariants. Introduction to related geometries, such as affine, elliptic, and hyperbolic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 560. Statistical Data Analysis - WR 3 Units
Prerequisite(s): MATH 205 or ENGR 101.
Description: Descriptive techniques, inferential techniques, simple and multiple linear regression. Frequent use of statistical computer packages. No previous knowledge of the computer required.
Note: Credit may be applied towards the MAT but not toward any other graduate degree in mathematics.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MATH 561. Probability 3 Units
Prerequisite(s): MATH 301.
Description: Probability spaces, probability distributions, moments, moment-generating functions, independence, transformation of variables, sampling distributions, laws of large numbers, central limit theorem, applications.
Note: Credit will not be granted for both MATH 561 and IE 360.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 562. Mathematical Statistics 3 Units
Prerequisite(s): MATH 561.
Description: Random samples and statistics, point estimation, sufficiency and completeness, confidence regions, classical theory of hypothesis testing, linear regression, nonclassical procedures.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 564. Probability Models 3 Units
Prerequisite(s): MATH 561.
Description: Finite probability models, Markov chains, renewal and reliability theory, Brownian motion, stochastic differential equations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 568. Mathematical Models in Molecular Biology 3 Units
Prerequisite(s): MATH 205 or instructor consent.

Note: Cross-listed with BIOC 568.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 570. Foundations of Actuarial Science 3 Units
Prerequisite(s): MATH 561.
Description: Fundamental mathematical tools for quantitatively assessing risk. Application of these tools to problems encountered in actuarial science is emphasized. Covers the material of Examination 1 of the Society of Actuaries and Casualty Actuarial Society.

Note: Credit may not be applied toward a graduate degree in mathematics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 574. Actuarial Models II 3 Units
Prerequisite(s): MATH 573.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 581. Introduction to Graph Theory 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): MATH 206 or ENGR 102; MATH 311; MATH 325 or consent of instructor.
Description: Provides an overview of graph theory. Topics include blocks, trees, connectivity, Hamiltonian and Eulerian graphs; topological problems, matrices and groups.

Note: Does not count towards the mathematics major or minor.
Note: Credit may be applied toward the MAT degree but not towards any other graduate degree in mathematics.
Note: Credit not allowed for both MATH 387 and MATH 587.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 590. History of Mathematics - WR 3 Units
Prerequisite(s): 500-level course in math (except MATH 560).
Description: Mathematical history from Mesopotamia to present. Emphasis on doing mathematics, identifying the growth of mathematical concepts and studying prominent mathematicians.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 591. Selected Topics in Mathematics 1-3 Units
Prerequisite(s): Announced in Schedule of Courses.
Description: An examination of one or more topics in mathematics not usually treated in a regularly offered course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 601. Real Analysis I 3 Units
Prerequisite(s): MATH 502.
Description: Basic set theory and real topology, Lebesgue measure and integration on the real line, differentiation of integrals, L(p) spaces.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 602. Real Analysis II 3 Units
Prerequisite(s): MATH 601.
Description: Elementary Hilbert space theory, abstract measure spaces and integration, product spaces. Applications to other areas.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MATH 605. Functional Equations I 3 Units
Prerequisite(s): MATH 601.
Description: Introduction to the theory and application of functional equations in several variables, including Cauchy equations, d’Alembert equation, quadratic functions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 606. Functional Equations II 3 Units
Prerequisite(s): MATH 605 or consent of department.
Description: It extends further the theory of functional equations to applications in various branches of mathematics, information theory, and the natural and social sciences.
Note: Continuation of MATH 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 607. Seminar on Applied Analysis 3 Units
Prerequisite(s): MATH 605 or consent of department.
Description: Advanced topics in applied analysis. Topics will be determined by the research interests of the students and those of the instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 611. Complex Variables I 3 Units
Prerequisite(s): MATH 502.
Description: Geometry of the complex plane and complex analysis. Topics include analytic and meromorphic functions, linear fractional transformations, Cauchy’s Theorem and the Residue Theorem. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 612. Complex Variables II 3 Units
Prerequisite(s): MATH 611.
Description: Including deeper properties of the space of meromorphic functions, harmonic functions and conformal mappings.
Note: Continuation of MATH 611.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 621. Algebra I 3 Units
Prerequisite(s): MATH 522.
Description: Advanced theory of Groups, Rings, Integral Domains and Fields. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 622. Algebra II 3 Units
Prerequisite(s): MATH 621.
Description: Including Polynomial Rings, Modules, Vector Spaces, Structure of Fields, Galois Theory, Advanced Linear Algebra.
Note: A continuation of MATH 621.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 631. Group Theory 3 Units
Prerequisite(s): MATH 522.
Description: Abstract Groups, Homomorphisms, Permutation Groups, Abelian Groups, Simple Groups, Sylow Theory, Series, Extensions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 633. Rings and Ideals 3 Units
Prerequisite(s): MATH 522.
Description: Ideals and Homomorphisms, Prime Ideals and the Prime Radical, Rings of Endomorphisms, the Jacobson Radical.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 635. Mathematical Modeling I 3 Units
Prerequisite(s): MATH 325, MATH 405 or equivalent.
Description: Introduction to mathematical modeling of continuous and discrete dynamical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 636. Mathematical Modeling II 3 Units
Prerequisite(s): MATH 635.
Description: Advanced mathematical modeling of discrete and continuous dynamical systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 641. Topology I 3 Units
Prerequisite(s): MATH 502 or MATH 541.
Description: Continuous functions, connectedness, compactness, countability, separation, metrizability, and completeness in the context of topological spaces.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 642. Topology II 3 Units
Prerequisite(s): MATH 641.
Description: Introduction to algebraic topology, including the Fundamental Group and Covering Spaces. Note: A continuation of MATH 641
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 663. Theory of Probability I 3 Units
Prerequisite(s): MATH 501 and MATH 561 or consent of department.
Description: Advanced topics in probability theory such as probability measures, random variables, laws of large numbers, large deviations, expected values, and distributions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MATH 664. Theory of Probability II  
Prerequisite(s): MATH 663 or consent of department.  
Description: Advanced topics in probability theory such as types of convergence, central limit theorems, conditional probabilities and expectations, stochastic processes, martingales, and Brownian motion. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 667. Statistical Inference  
Prerequisite(s): MATH 561 or consent of department.  
Description: Advanced topics in mathematical statistics such as sampling distributions, exponential families, sufficiency, point and interval estimation, likelihood-based inference, hypothesis testing, Bayesian inference, statistical decision theory, and asymptotic theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 668. Linear Statistical Modeling  
Prerequisite(s): MATH 667 or consent of department.  
Description: This course covers linear and related models including a discussion of fixed, mixed, and random effects models as well as regression and ANOVA models. The discussion will include estimation, hypothesis testing, confidence intervals, model fitting, and model diagnostics. Violations of the assumptions of the linear model will be examined. Statistical software will be used frequently. A strong background in linear algebra is needed. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 670. Introduction to the Stochastic Calculus  
Prerequisite(s): MATH 660 or consent of the department.  
Description: Levy Process, local martingale, stochastic integrals, quadratic variation, Ito’s formula, existence and uniqueness of stochastic differential equation. Applications to financial engineering, no arbitrage and martingale measure, Black-Scholes model, edging. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 673. Actuarial Models I  
Prerequisite(s): MATH 570 and MATH 572.  
Description: Theoretical basis of actuarial models and the application of those models to insurance and other financial risks. The following specific models are introduced: Contingent Payment Models, Survival Models, Frequency and Severity Models, Compound Distribution Models, Stochastic Process Models, Ruin Models. Together with its continuation, Mathematics 674, covers the material on the Examination 3 of the Society of Actuaries and the Casualty Actuarial Society. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 674. Actuarial Models II  
Prerequisite(s): MATH 673.  
Description: It further develops knowledge of the theoretical basis of actuarial models and the application of those models to insurance and other financial risks. The following specific models are introduced: Contingent Payment Models, Survival Models, Frequency and Severity Models, Compound Distribution Models, Stochastic Process Models, Ruin Models. Together with its predecessor, Mathematics 673, covers material on the Examination 3 of the Society of Actuaries and the Casualty Actuarial Society.  
Note: Continuation of Math 573/MATH 673.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 676. Actuarial Modeling I  
Prerequisite(s): MATH 673 and MATH 674.  
Description: Approximately half of the material on the Society of Actuaries/Casualty Actuarial Society examination 4, Actuarial Modeling. Topics include: statistical analysis of simulated data, statistical validation techniques, actuarial credibility, empirical estimation, loss distributions, and introduction to estimation of survival functions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 677. Actuarial Modeling II  
Prerequisite(s): MATH 676.  

MATH 681. Combinatorics and Graph Theory I  
Prerequisite(s): MATH 521, or MATH 580, or MATH 581, or consent of department.  
Description: Fundamental topics in Graph Theory and Combinatorics through Ramsey theory and Polya’s theorem respectively. Motivation will be through appropriate applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 682. Combinatorics and Graph Theory II  
Prerequisite(s): MATH 681.  
Description: Fundamental topics in Graph Theory and Combinatorics through Ramsey theory and Polya’s theorem respectively. Motivation will be through appropriate applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MATH 683. Advanced Combinatorics and Graph Theory I
Prerequisite(s): MATH 681.
Description: Advanced topics in Combinatorics and Graph Theory, including finite planes, coding theory, combinatorial optimization, groups, and graphs on manifolds.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 684. Advanced Combinatorics and Graph Theory II
Prerequisite(s): MATH 681 and MATH 682.
Description: Course extends the study of advanced topics in Combinatorics and Graph Theory, including Extremal Graph Theory and Algebraic Combinatorics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 687. Seminar on Discrete Mathematics
Prerequisite(s): MATH 683 or consent of department.
Description: Advanced topics in discrete mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 690. An Overview of Mathematics
Prerequisite(s): Undergraduate mathematics major or at least four mathematics courses in the graduate program or consent of instructor.
Description: History of mathematics, survey of the major content areas of modern mathematics, discernment of current directions in various mathematical fields.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 691. Independent Study
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 693. Seminar in Teaching Mathematics
Prerequisite(s): Must be admitted to a graduate program in the Department of Mathematics and consent of instructor.
Description: Topics in teaching mathematics to college students.
Note: Does not count as part of the 18-hour minimum in mathematics for the MA in Mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 694. Graduate Internship
Description: Students participating in a graduate internship must be registered for this course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 695. Thesis Guidance
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 696. Computer in Teaching Science and Mathematics
Prerequisite(s): One year of teaching experience or consent of instructor (no previous computer experience needed).
Description: Introductory programming and use of computers in a wide range of topics in secondary school science and mathematics.
Note: Does not count as part of 15-hour minimum in 600-level mathematics courses for the MA in Mathematics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 699. Seminar
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 700. Doctoral Research
Grading Basis: Pass/Fail
Prerequisite(s): Student must have passed all qualifying examinations and have a dissertation committee.
Description: Research while enrolled for a doctoral degree under the direction of faculty members.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MATH 710. Doctoral Dissertation
Grading Basis: Pass/Fail
Prerequisite(s): Previous enrollment in MATH 700.
Description: Dissertation writing under the direction of the major professor.
Note: Grade to be deferred until evaluation of the dissertation by the student’s committee.
Note: Graded pass-fail, depending on the evaluation by the student’s committee.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Mathematics for Education (MTED)

MTED 591. Topics in Mathematics for In-Service Teachers
Prerequisite(s): MATH 152 or permission of department.
Description: Course is intended for professional development of in-service mathematics teachers and will typically be taught off campus. Mathematical topics will be mixed with strategies for presenting them to students and with applications and technology as needed.
Note: Course does not count toward any degree in A&S.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ME 510. Thermal Design of Internal Combustion Engines 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 310.
Description: Thermodynamics and fluid mechanics of internal combustion engine design. Combustion stoichiometry, thermochemistry, and properties of working fluids. Ideal and real engine cycles. Fluid flow processes, combustion processes, pollutant formation and control. Engine operating characteristics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 512. Finite Element Methods for Mechanical Design I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): ME 422.
Description: Matrix analysis of static and dynamic structural systems and steady-state heat transfer. Computer aided design of trusses, frames, plane stress structures, as well as one- and two-dimensional thermal systems including conduction and convection.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 513. Energy Conversion 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 310.
Description: A study of nuclear and fossil-fueled steam generators, plus internal combustion prime movers and alternate energy sources. A computerized design project will be required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 521. Mechanical Vibrations 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 422.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 523. Intermediate Dynamics 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 206 and ME 422.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 526. Vehicle Dynamics and Handling 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 380.
Description: Design of passenger and commercial vehicles for optimal dynamic performance with a focus on architecture layout, characterization of critical subsystems, and CAE-based kinematic and kinetic modeling.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 530. Mechanical Design of Consumer Appliances 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Application of classical, computational, and experimental methods and analyses to the design of mechanical systems characteristic of consumer appliances. Topics include component analysis and design, failure mechanisms, and organization with respect to life, reliability, performance, and cost.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 531. Consumer Appliance Energy Systems 3 Units
Term Typically Offered: Fall, Spring, Summer
Description: Analysis and design of energy systems in home appliances. Topics include thermal-fluid process fundamentals, energy transport, storage, use, and conversion, energy system components and materials, and the affect of extreme environments on components and finishes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 532. Experimental Stress Analysis 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ME 323, ME 414 and ME 415 or graduate standing in Mechanical Engineering.
Description: Fundamentals of experimental stress analysis. Brittle coating methods, photoelastic coating and electrical strain gage techniques, strain measurements under static and dynamic loading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 534. Experimental Vibrations 3 Units
Term Typically Offered: Summer Odd Years
Prerequisite(s): ME 435.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 535</td>
<td>Control System Design</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ME 435</td>
<td>Basic concepts and principles of feedback control systems. Formulation of linear control problems by classical methods. Analysis and synthesis techniques as used in the design of automatic, dynamic control systems. Study of transient and steady state response, use of time and frequency domain concepts. System performance specifications. Design applications. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 542</td>
<td>Gas Turbines</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ME 310 and ME 401.</td>
<td>Theory and design of various types of gas turbine engines used for power and propulsion. Thermodynamic cycle analysis; design basics of turbomachinery, nozzles, diffusers and combustion chambers; engine performance analysis. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 544</td>
<td>Design of Fluid Power Systems</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ME 380 and ME 401.</td>
<td>Design methodology of hydraulic circuits and fluid power components. Study of rotary/linear actuators, hydrostatic transmissions, temperature control, contamination control, pneumatics, valves, and control components. Applied design projects and laboratory modules are required. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 555</td>
<td>Introduction to Micro and Nanotechnology</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>CHE 253 or equivalent; Senior or Graduate standing in an engineering program.</td>
<td>Design, fabrication and application of micro- and nanoelectro-mechanical systems (MEMS/NEMS). Scaling laws governing micro-and nanoscale physics. Use of MEMS/NEMS devices in electronics, as sensors, and for medical applications. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 562</td>
<td>Composite Materials</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ME 422</td>
<td>Overview of composite materials, stress/strain analysis of a polymer matrix fiber-reinforced composite ply, classical lamination theory, failure criteria, design approaches, manufacturing methods, and applications for structural polymeric composites. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 565</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ENGR 201 and ENGR 205 or equivalent.</td>
<td>Formulation and solution of mathematical models for mechanical engineering problems leading to ordinary and partial differential equations. Transform solution methods and linear algebra concepts, including real and complex-domain eigenvalue problem solutions. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 566</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ME 565 or equivalent.</td>
<td>Analysis of engineering systems and phenomena yielding complex domain models and solutions. Power series, Taylor series, and Laurent series. Complex analysis and potential theory. Numerical analysis for complex domain systems. Introduction to optimization and linear programming. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 570</td>
<td>Sustainable Energy Systems</td>
<td>3</td>
<td>Fall Only</td>
<td>ME 310 and ME 311.</td>
<td>Study of the principles and analysis of energy systems. Introduction to energy storage systems and their applications; thermal and mechanical energy storage, storage of organic fuels, hydrogen, and electrochemical energy. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 572</td>
<td>Energy Storage Systems</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>ME 440</td>
<td>Study of the principles and analysis of energy systems. Introduction to energy storage systems and their applications; thermal and mechanical energy storage, storage of organic fuels, hydrogen, and electrochemical energy. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 575</td>
<td>Special Topics in Mechanical Engineering</td>
<td>1-4</td>
<td>Fall Only</td>
<td>Faculty consent.</td>
<td>A special topics course in mechanical engineering topics not covered by regularly scheduled courses. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>ME 580</td>
<td>Air Pollution Control</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>CHEM 202, ME 310 or equivalent.</td>
<td>Origin and fate of air pollutants, combustion and pollutant formation processes, control of emissions of gaseous and particulate pollutants and design of various pollution control devices. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
</tbody>
</table>
ME 585. Design and Energy Analysis of Consumer Appliances  
**Description:** Application of classical, computational, and experimental methods and analysis to the design of mechanical and energy systems. Topics include material impacts on design, structural component design, and design and analysis of thermal fluid, and acoustic systems. For class offerings for a specific term, refer to the Schedule of Classes.

ME 588. Independent Study in Mechanical Engineering  
**Term Typically Offered:** Fall, Spring, Summer  
**Prerequisite(s):** Faculty consent.  
**Description:** A theoretical or experimental investigation of a problem area related to mechanical engineering. For class offerings for a specific term, refer to the Schedule of Classes.

ME 595. Measurement, Reliability, and Thermal Design of Electromechanical Systems  
**Prerequisite(s):** ME 585.  
**Description:** Application of classical, computational, and experimental methods and analyses to the design of electromechanical systems. Topics include reliability and failure analysis, measurement and control of electromechanical systems, and analysis and design optimization of thermal systems. For class offerings for a specific term, refer to the Schedule of Classes.

ME 602. Graduate Internship in Mechanical Engineering  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** Students must be admitted for Graduate study, and a sponsored member of the Graduate Intern Program.  
**Description:** Supervised professional experience in industry at the graduate level. This course provides the structure and focus for the graduate intern field assignment to ensure that the assignment is appropriate and consistent with the intern’s graduate course of study and professional development. May be repeated for credit. For class offerings for a specific term, refer to the Schedule of Classes.

ME 606. Continuum Mechanics  
**Prerequisite(s):** Graduate School Standing, ME 311 and ME 323.  
**Description:** Emphasizes the basic principles of continuum mechanics and the central role these principles play in the formulation of the fundamental equations of fluids and solid mechanics. For class offerings for a specific term, refer to the Schedule of Classes.

ME 610. Data Acquisition and Signal Analysis  
**Prerequisite(s):** Graduate/Graduate Professional standing in Mechanical Engineering or instructor permission.  
**Description:** Implementation of PC-based data acquisition systems for dynamic signal analysis. The LabView graphical programming language will be used to design virtual instruments for data collection and signal analysis. For class offerings for a specific term, refer to the Schedule of Classes.

ME 612. Finite Element Methods for Mechanical Design II  
**Prerequisite(s):** ME 512.  
**Description:** Use of general purpose software for practical structural, thermal, and fluid design applications, including nonlinear and transient effects. Advanced modeling techniques, and analysis guideline with emphasis on interpretation of results. For class offerings for a specific term, refer to the Schedule of Classes.

ME 614. Heating, Ventilating, and Air Conditioning  
**Prerequisite(s):** ME 440.  
**Description:** Psychometric principles. Detailed calculation of heat losses and heat gain for both heating and cooling of buildings. Basic concepts of refrigeration. Design of actual systems and selection of equipment. Automatic controls. Codes and standards. A design project will be required. For class offerings for a specific term, refer to the Schedule of Classes.

ME 618. Heat Exchanger Design  
**Prerequisite(s):** ME 401 and ME 440.  
**Description:** Thermal and hydraulic design of heat exchangers. Selection and optimum design of heat exchangers. Cost and construction of heat exchangers. For class offerings for a specific term, refer to the Schedule of Classes.

ME 620. Advanced Mechanics of Solids  
**Prerequisite(s):** ME 432 or equivalent.  
**Description:** Analysis of stress and strain. Topics include failure theories, unsymmetric bending, curved beams, shear center, torsion, beams on elastic foundations, beams with combined axial and lateral loads, thick-wall cylinders, rotating disc, introduction to elastic stability.  
**Note:** Cross-listed with CE 620.

ME 621. Noise and Vibration Control  
**Prerequisite(s):** ME 422 and ME 414.  
**Description:** Practical aspects of noise and vibration control are studied. Methods for measuring and analyzing noise and vibration. Methods for selecting design criteria. Methods for quieting a product. For class offerings for a specific term, refer to the Schedule of Classes.

ME 625. Mechanical Design of Internal Combustion Engines  
**Prerequisite(s):** ME 310, ME 380, and ME 442, or equivalents.  
**Description:** Principles and procedures for the mechanical design of internal combustion engine components and systems for strength, endurance, and optimal performance. Design projects and computer applications are emphasized. For class offerings for a specific term, refer to the Schedule of Classes.
ME 626. Vehicle Body Structure Design 3 Units
Prerequisite(s): ME 380 and ME 442, or equivalent.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 630. Turbomachinery 3 Units
Prerequisite(s): ME 310 and ME 401.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 638. Computational Methods in Fluid Flow and Heat Transfer 3 Units
Prerequisite(s): Graduate School or Professional School Standing.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 639. Injury Biomechanics 3 Units
Prerequisite(s): ME 649 or BE 354 or equivalent or permission of the instructor.
Note: Cross-listed with BE 639.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 640. Optimum Design Methods 3 Units
Prerequisite(s): ME 422 or equivalent.
Description: Methods and applications of engineering design optimization. Strategies for problem formulation. Transformation methods, search techniques, linearization methods and quadratic approximation methods. Solution evaluation.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 641. Advanced Mechanics of Machinery 3 Units
Prerequisite(s): ME 442 and ME 521.
Description: Machine analysis and design for high speed, high performance applications. Rigid-body kinematics and dynamics of mechanisms, balancing of machinery. Cam-follower mechanisms. Mathematical modeling of mechanisms composed of elastically deformable elements such as gears, bearings, linkages and actuators. Transient and steady-state dynamic response. Failure modes and prevention. A design project is required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 644. Mechatronics 3 Units
Description: Introduction to multi-domain systems. Mechanical, electrical, electronic, electromechanical system dynamics. Emphasis on modeling and simulation of hybrid systems using modern computer-aided tools.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 645. Mechanical Engineering Structured Research Project 3 Units
Prerequisite(s): Graduate/professional school standing.
Description: Structured research in a mechanical engineering discipline. A proposal, activity reports and final report are required. Research results are presented for faculty and peer review, and must also be documented in a scholarly paper targeted toward a journal or technical conference. Intended for candidates for the Master of Engineering degree choosing the non-thesis curriculum alternative.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 646. Design for Manufacturability and Reliability 3 Units
Prerequisite(s): ME 442 and IE 360.
Description: Introduction to manufacturing concerns such as efficient assembly, producibility, and quality that should be considered early in the design process. Topics include the product development cycle, manufacturing process selection, tolerancing, design for assembly, quality control techniques, Taguchi’s robust design methodology, quality function deployment, value engineering and reliability-based design. Lifecycle optimization.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 647. Advanced Design Methods 3 Units
Prerequisite(s): ME 442 and ME 497.
Description: Practical techniques for product definition, concept generation and selection, value analysis, parameter design, design for manufacture, life cycle design and product structuring.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 650. Biofluid Mechanics 3 Units
Prerequisite(s): ME 401.
Description: Application of the Navier-Stokes equation to flow in the human body and to other biological systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ME 651. Kinematics and Kinetics of Human Movement  
Prerequisite(s): ME 206.  
Description: Development of analytical tools for evaluating three-dimensional kinematics and kinetics of human motion. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 652. Advanced Human Biodynamics  
Prerequisite(s): ME 651.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 661. Advanced Thermodynamics  
Prerequisite(s): Graduate School or Professional School Standing.  
Description: Review of thermodynamic fundamentals, with application to selected topics. Irreversible, non-equilibrium thermodynamics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 662. Intermediate Heat Transfer  
Prerequisite(s): ME 440.  
Description: Classical heat conduction solutions and numerical techniques. Intermediate convection and radiative heat transfer topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 667. Solar Energy Applications  
Prerequisite(s): ME 401 and ME 440.  
Description: Theory of solar radiation transmission, absorption and reflectance. Heat transfer in solar energy devices. Design methods for heating of buildings by solar energy. Active and passive solar applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 668. Advanced Mechanical Vibrations  
Prerequisite(s): ME 521.  
Description: Analytical and computational methods for mechanical vibration problems. Formulation and solution techniques. Modeling and applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 669. Advanced Dynamics  
Prerequisite(s): Graduate School or Professional School Standing.  
Description: Kinematics and dynamics of rigid-body motion. An introduction to variational mechanics, including generalized coordinates and Lagrange's equations of motion. Stability of motion, including the Routh-Hurwitz criterion and the Liapounov direct method. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 671. Advanced Fluid Mechanics  
Prerequisite(s): ME 401.  
Description: A study of the Navier-Stokes equation, with application to laminar and turbulent-flow fields for various geometries. Computer applications. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 675. Advanced Topics in Mechanical Engineering  
Prerequisite(s): Faculty consent.  
Description: An advanced course in mechanical engineering topics not covered by regularly scheduled courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 688. Independent Study in Mechanical Engineering  
Prerequisite(s): Graduate/professional school standing.  
Description: Presentations on research projects and current literature. Course begins in the fall semester and concludes in the spring semester. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 690. Master of Science Thesis in Mechanical Engineering  
Prerequisite(s): ME 530, ME 531, and ECE 532.  
Description: Experimental and/or theoretical thesis research performed as part of Master of Science degree requirements. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 694. Mechanical Engineering Seminar  
Grading Basis: Pass/Fail  
Prerequisite(s): Graduate/professional school standing.  
Description: Presentations on research projects and current literature. Course begins in the fall semester and concludes in the spring semester. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 695. Platform Engineering Project  
Prerequisite(s): ME 530, ME 531, and ECE 532.  
Description: Major product development project involving a multidisciplinary team working on design and/or research problems associated with consumer appliance technologies. Concurrent topics on project realization and management. A proposal, activity reports and final report are required. Project results are presented for faculty and peer review. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ME 697. Master of Engineering Thesis in Mechanical Engineering  
Prerequisite(s): Graduate/Professional School standing.  
Description: Original design or research activity in a mechanical engineering discipline, under the direction of a faculty member. A written thesis must be presented to a faculty committee and defended. Intended for candidates for the Master of Engineering degree choosing the thesis curriculum alternative. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ME 700. Dissertation Research in Mechanical Engineering 1-18 Units
Prerequisite(s): Completion of doctoral program core and permission of dissertation director.
Description: Original research activity in an appropriate mechanical engineering discipline, under the direction of a Mechanical Engineering graduate faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Microbiology & Immunology (MBIO)

MBIO 606. Seminar 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Consent of instructor.
Description: Pass/Fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 610. Methods and Analysis in the Biomedical Sciences 2 Units
Description: The primary goal of the Methods and Analysis course is to provide first year graduate students with the conceptual framework to become familiar with key tools and techniques used in biomedical science research. We will examine the kind of information the methodology can provide, the strengths and weaknesses of the approach and how data obtained can be judged and used to address scientific problems.
Note: Cross-listed with ASNB 610, BIOC 610, PHTX 610, PHZB 610.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 618. Topics in Advanced Microbiology 1-3 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 619. Research 1-12 Units
Grading Basis: Pass/Fail
Prerequisite(s): Consent of instructor.
Description: Pass/Fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 620. Thesis 1-6 Units
Grading Basis: Pass/Fail
Prerequisite(s): Consent of instructor.
Description: Pass/Fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 621. Advanced Immunology: Innate and Adaptive Immunity 2 Units
Prerequisite(s): MBIO 602 or consent of instructor.
Description: This is an advanced interdisciplinary graduate level course focused on acquiring deeper knowledge about cells and associated concepts involved in innate and acquired immunity. The cells include dendritic cells, macrophages, neutrophils, innate lymphoid cells, NK cells and T cells. Concepts such as cell differentiation, development, activation and function, antigen presentation, thymic selection, and cell cross-talk will be discussed. Format: short lectures, analysis of pertinent high-profile papers. Graded.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MBIO 622. Advanced Immunology of Disease 2 Units
Prerequisite(s): MBIO 602 or consent of instructor.
Description: The course focuses on the immune system in the context of disease with particular emphasis on Autoimmunity, Cancer, and Transplantation, and in particular, the cellular and molecular components of immune responses that perpetuate or protect against graft rejection, autoimmunity, and cancer. Format: short lectures, analysis of pertinent high-profile papers. Graded.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 623. Scientific Writing and Hypothesis Testing 1 Unit
Term Typically Offered: Summer Only
Grading Basis: Pass/Fail
Prerequisite(s): None
Description: This course will teach students writing and presentation skills necessary to compete successfully for grant funding, and more generally to succeed as a scientist. Topics covered in this course include how to write Abstract, Specific aims, Significance and Approach sections, and how to prepare an effective biosketch. Didactic lectures on these topics will be combined with in class presentations by students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 631. Basic Microbiology and Immunology 5 Units
Term Typically Offered: Summer Only
Prerequisite(s): Consent of instructor.
Description: A general course in infectious diseases and immunology. Special emphasis is placed on oral infections, immune phenomena, and natural resistance mechanisms. Specific topics include the human immune response, pathogenesis of microbial infections, molecular and microbiological basis of periodontal diseases, pulp and periapical infections and cariogenesis. Graded Summer semester only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 637. Microbial Pathogenesis 2 Units
Prerequisite(s): MBIO 601, BIOS 645, or consent of instructor.
Description: A detailed discussion of host-parasite interactions, focusing on the characteristics (i.e., virulence factors) of bacteria that enable them to cause disease. Exotoxins, capsules, adherence mechanisms, intracellular replication, and iron metabolism will be described in detail. Specific bacterial diseases will be examined to illustrate how each virulence factor is required in the infectious process. The use of animals and other model systems will be discussed. Graded Every year, spring semester only.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 689. Microbiota in Health and Disease 2 Units
Description: This is an advanced interdisciplinary graduate level class focused on composition of the microbiota and its role in health and various diseases from birth through death. These diseases include allergies, irritable bowel disease, metabolic diseases and cancer. Factors that influence composition of the microbiota, such as breast vs formula feeding infants, antibiotic treatment, diet in adulthood, hygiene, and the consequences on various diseases, such as obesity and metabolic diseases, will be discussed. The role of fecal transplants, probiotics and prebiotics in alleviating the harmful effects of imbalance of the microbiota will be discussed. Format: short lectures, analysis of pertinent high-profile papers. Graded.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MBIO 690. Research Methods in Microbiology and Immunology 2 Units
Grading Basis: Pass/Fail
Description: A series of lectures and laboratory demonstrations emphasizing current research techniques used in areas of immunology, virology, microbiology, biochemistry and molecular biology. A limited amount of hands-on experience may be utilized in some areas. Fall semester only. Pass/fail grading.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Modern Languages (M L)

M L 500. Study Abroad 1-15 Units
Prerequisite(s): Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.
Description: Credit awarded upon demonstration of successful completion of program undertaken with prior approval of the department, including a paper or project and an oral or written examination in the language and culture, administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 506. Francophone Women Writers - WR 3 Units
Prerequisite(s): Junior standing or faculty consent.
Description: Readings of literary and non-literary texts by women of the French-speaking world.
Note: Cross-listed with WGST 571.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 519. German Intellectual History 3 Units
Prerequisite(s): Consent of instructor.
Description: Consideration of German thought and sensibility from the Middle Ages to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
ML 521. Teaching Techniques in Foreign Languages 3 Units
Prerequisite(s): Current status as a foreign language teacher or consent of instructor.
Description: Teaching methods in foreign languages. Recommended for those teaching or preparing to teach languages.
Note: Cross-listed with LING 521.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ML 551. Special Topics 3 Units
Prerequisite(s): Consent of instructor.
Description: Special themes and issues of particular significance as reflected in selected works of foreign language, literature or culture. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ML 552. Special Topics 3 Units
Prerequisite(s): Consent of instructor.
Description: Special themes and issues of particular significance as reflected in selected works of foreign language, literature or culture. Topics vary.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ML 553. Selected Authors in Foreign Literature 3 Units
Prerequisite(s): Consent of instructor.
Description: The life and works of significant authors chosen from the panorama of foreign literature; their literary and/or cultural impact on society. Authors will vary from semester to semester.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ML 561. Masterpieces of Russian Literature 3 Units
Description: Reading and discussion of the three greatest masterpieces of Russian literature: Tolstoy's "War and Peace," Dostoevsky's "Brothers Karamazov," and Pushkin's "Eugene Onegin".
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

ML 605. Summer Workshop for Foreign Language Teachers 3 Units
Prerequisite(s): Consent of instructor.
Description: Intensive, two-to-three-week workshop exploring a pedagogical topic.
Note: Cross-listed with LING 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

M L 640. Graduate Reading Knowledge of Foreign Language 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Graduate standing and approval of the chair.
Description: Intensive language course designed for graduate students who are preparing for language reading examinations, providing reading knowledge of a foreign language by focusing on fundamentals of translation.
Note: Cross-listed with HUM 640.
Note: The credits may not be used as part of a graduate program.
Note: May be repeated up to 3 times for different languages.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music (MUS)

MUS 500. Music History Review 0 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring
Description: The purpose of the course is to provide the student with a reasonable method of removing deficiencies revealed by the Graduate Entrance Examination. No graduate student will be allowed to enroll in any graduate course in a historical period in which he has failed to pass the corresponding section of the Graduate Entrance Examination until he has removed his deficiency in the history of the subject. Areas covered are: deficiencies within the period from the Middle Ages to 1530; deficiencies within the period between 1530 and 1750; deficiencies within the period between 1750 and 1850; and deficiencies within the period from 1850 to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 501. Major Applied Study 2 Units
Term Typically Offered: Fall, Spring
Description: One-hour private lesson for performance majors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 502. Major Applied Study 2 Units
Prerequisite(s): Faculty consent.
Description: One-hour private lesson for performance majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 503. Major Applied Study  
Prerequisite(s): Faculty Consent.  
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 504. Major Applied Study  
Prerequisite(s): Faculty Consent.  
Description: PIANO: First year: Student will study scales and arpeggios, Bach 2-Part Inventions, Sonatas by Haydn or Mozart, and compositions by such composers as Beethoven, Schubert, Chopin, Mendelssohn, Grieg. Second Year: Student will study scales and arpeggios, and literature equivalent to Bach 3-Part Inventions or French Suites, Sonatas by Beethoven or Schubert, Mozart Fantasia or Rondo, Scarlatti Sonatas, compositions by Chopin, Schumann, Brahms, Debussy. Third Year: Student will study technical materials and such materials as Bach English Suites or Preludes and Fugues, Sonatas by Mozart of Beethoven, Haydn Variations, Mozart Concertos or compositions by Chopin, Liszt, Rachmaninoff, Debussy. Fourth Year: Student will study technical materials and such materials as Bach Partitas and Preludes and Fugues, Sonatas by Beethoven, Schumann, or Chopin, Mozart or Beethoven
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 509. Major Ensembles  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Graduate standing in music or by permission of instructor.
Description: Symphony Orchestra; Symphonic Band; Early Music Ensemble; Opera Theater; Jazz Ensemble; Jazz Repertory Ensemble, Concert Band; Pep Band; Wind Ensemble; Wind Symphony, New Music Ensemble; Marching Band; University Chorus; Collegiate Chorale, Vocal Jazz Ensemble, Singing Cardsmen
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 511. Principal Applied Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 512. Principal Applied Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: One-hour private lesson for students majoring in composition, music education, music history, music therapy, or theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 513. Principal Applied Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: One-hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 514. Principal Applied Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: One-hour private lesson for piano pedagogy majors. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 519. Minor Ensembles  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Graduate standing in music or by permission of instructor.
Description: Study and performance of works for small ensembles: Piano; String; Woodwind; Brass or Percussion Ensemble; Improvisation; Guitar; Jazz Combo (Instrumental); Jazz Ensemble; Brass Chamber Music; Historical Brass Ensemble, Trombone, Tuba or Tuba/Euphonium; Saxophone Ensemble; Opera Workshop; Clarinet, Flute, Harp Ensemble; Community Band; Historical Instruments and Techla.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 521. Secondary Applied Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: A secondary applied music course carried in addition to the student’s major or principal field. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 522. Secondary Applied Study  
Term Typically Offered: Fall, Spring  
Prerequisite(s): Faculty consent.  
Description: A secondary applied music course carried in addition to the student’s major or principal field. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 527. Choral Music in the Modern Secondary School  
Term Typically Offered: Occasionally Offered  
Description: Procedures and techniques for use with the high school chorus including such topics as selection of repertoire, voice production, diction, rehearsal psychology, and performance practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
<th>Vary by section, see course description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 529</td>
<td>Cardinal Singers</td>
<td>0.5</td>
<td>Fall, Spring</td>
<td>Honors choral ensemble with entrance by audition only. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 337 or permission of instructor.</td>
<td></td>
<td>Upper Division or graduate standing</td>
</tr>
<tr>
<td>MUS 530</td>
<td>Choral Literature I</td>
<td>2</td>
<td>Fall, Spring</td>
<td>A survey of choral literature from chant to c.1750. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 531</td>
<td>Choral Literature II</td>
<td>2</td>
<td>Fall, Spring</td>
<td>A survey of choral literature from c.1750 to present. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 533</td>
<td>Functional Study</td>
<td>1</td>
<td>Fall, Spring</td>
<td>One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 534</td>
<td>Functional Study</td>
<td>1</td>
<td>Fall, Spring</td>
<td>One half-hour private lesson weekly in an applied area. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 535</td>
<td>Music Industry I</td>
<td>2</td>
<td>Fall, Spring</td>
<td>A study of current practices affecting the professional musician and a survey of career opportunities relating to music and industry. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 536</td>
<td>Music Industry II</td>
<td>2</td>
<td>Occasionally Offered</td>
<td>Continuation of MUS 535. Includes broadcast, performance, marketing, retail sales, audio/video engineering, publishing, law, and labor relations. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 537</td>
<td>Advanced Techniques for Marching Bands</td>
<td>2</td>
<td>Occasionally Offered</td>
<td>Problems in preparing the half-time show. Arranging for the marching band. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 337 or permission of instructor.</td>
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<tr>
<td>MUS 538</td>
<td>Studies in Pedagogy</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Pedagogy studies on specific instruments. Offered under separate sections. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 539</td>
<td>Studies in Jazz</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Focus on aural skills, transcription methods, and advanced jazz harmony topics. Extended functional harmony and advanced rhythmic concepts. Examples will focus on transcribed solos by established jazz masters. Sections include: (01) Jazz Style Analysis, Prereq: Theory IV and MUS 138 and permission of instructor. Explores jazz style through analysis of historically significant transcribed solos as played by jazz masters (02) Advanced Jazz Theory, Prereq: Jazz Theory I or passing grade on Jazz Theory Entrance Exam. (03) Standard Jazz Repertoire Prereq: MUS 138 and permission of instructor. Focuses on learning compositions from standard jazz repertoire. While improvisation is stressed as an important part of the learning process, the main objective will be to learn and memorize melodies and chord progressions of selected pieces from a number of musical styles. Each class session will concentrate on a specific style, composer, and/or type of composition tune. A variety of tempos and keys will be chosen. Selected compositions may be performed with play-a-long recordings or with other students in class. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 541</td>
<td>Private Non-Major Music Composition I</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Admission to graduate music study or permission of the instructor. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 542</td>
<td>Private Non-Major Music Composition II</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Admission to graduate music study or permission of the instructor. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 543</td>
<td>Advanced Composition</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Composition study for graduate students who are not composition or music theory majors. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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<tr>
<td>MUS 544</td>
<td>Studies in Jazz</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Continuation of MUS 444. Public presentation required. For class offerings for a specific term, refer to the Schedule of Classes. (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
<td>MUS 535 or permission of instructor.</td>
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</tbody>
</table>
MUS 544. Advanced Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of Instructor.
Corequisite(s): MUS 441 for undergraduates and MUS 669 for graduates.
Description: Continuation of MUS 543. Public presentation required.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 545. Advanced Instrumental Scoring
Term Typically Offered: Fall, Spring
Prerequisite(s): Undergraduate orchestration course or permission of instructor.
Description: Analysis of orchestration techniques by 19th- and 20th-century composers.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 547. Chromatic Harmony and Analysis
Term Typically Offered: Spring Only
Prerequisite(s): MUS 242 and MUS 347.
Description: A study of chromatic harmony and voice leading, expanded tonality, and extended forms. Analysis of music of the late 19th and early 20th centuries; creative writing in styles of this period.
Note: Credit not allowed for both MUS 547 and MUS 647.

MUS 548. Post-Tonal Theory and Analysis
Term Typically Offered: Fall Only
Prerequisite(s): MUS 547.
Description: Survey of post-tonal theory. Analysis of centric, atonal, serial, and other music composed since 1900.
Note: Credit not allowed for both MUS 548 and MUS 648.

MUS 549. Renaissance Counterpoint
Term Typically Offered: Fall Only
Prerequisite(s): Upper division or graduate standing.
Description: A study of 16th-century vocal polyphony in the style of Palestrina, Lassus, et al., including stylistic composition in two or more voices.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 550. Baroque Counterpoint
Term Typically Offered: Spring Only
Prerequisite(s): Upper division or graduate standing.
Description: A study of 18th-century counterpoint, emphasizing Bach’s style and forms, including stylistic composition in two or more voices.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 551. Studies in Improvisation
Term Typically Offered: Fall, Spring
Prerequisite(s): Upper division, graduate standing in music, or permission of instructor.
Description: Improvisation and open-form music are explored through creation and performance, and the study of various improvisation traditions.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 552. Pedagogy of Theory
Term Typically Offered: Fall, Spring
Description: Analysis and discussion of various methods of teaching the elements of music theory.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 555. Instrument Repair
Term Typically Offered: Not Offered
Prerequisite(s): Permission of instructor.
Description: Repair of woodwind and brass instruments.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 556. Piano Technology I
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUS 557 or permission of the instructor.
Description: Study of the complex inner workings of the piano. Includes basics of tuning and maintenance.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 557. Piano Technology II
Term Typically Offered: Occasionally Offered
Prerequisite(s): MUS 557 or permission of the instructor.
Description: Study of the complex inner workings of the piano. Includes basics of tuning and maintenance.
For class offerings for a specific term, refer to the Schedule of Classes.

MUS 558. Instrumental Conducting and Score Reading
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 346 or permission of instructor.
Description: Conducting techniques and problems for the public school instrumental director. Reading from full score. Survey of literature.
For class offerings for a specific term, refer to the Schedule of Classes.
MUS 561. Literature 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 361 series or permission of instructor.
Description: Offered under the various subtitles/sections: (01) Piano Literature: A survey of piano repertoire from the Baroque and Classical Eras. (02) Band Literature: A survey of literature for wind and percussion instruments in large ensemble combinations focusing upon material for the standard instrumentation of the concert band. Emphasis will be given to dramatic change in the repertoire from 1950 to the present, particularly the implications for instrumental music education. Course work will include both artistic and practical considerations with study of works by Hindemith, Stravinsky, Schoenberg, Persichetti, Gould, and Ives. (03) Organ Literature: A comprehensive study in the field of organ literature from Schlich to Hindemith. No performance required. (05) Vocal Literature: A survey of vocal literature from the 18th century to the present day, with emphasis on standard repertoire. Program analysis and program building. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 562. Literature 2 Units
Term Typically Offered: Fall, Spring
Description: A survey of piano repertoire from the Romantic and Modern Eras. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 563. Literature 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Upper division or graduate standing.
Description: Performance Literature for specific instruments. Offered under separate sections. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 564. Literature 1 Unit
Term Typically Offered: Fall, Spring
Prerequisite(s): Upper division or graduate standing.
Description: Performance Literature for specific instruments. Offered under separate sections. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 565. Church Music Literature 2 Units
Term Typically Offered: Not Offered
Description: Designed to acquaint the student with church music repertoire of the past and present and to give practical training in service playing and accompanying. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 566. Church Music Literature 2 Units
Term Typically Offered: Not Offered
Description: Designed to acquaint the student with church music repertoire of the past and present and to give practical training in service playing and accompanying. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 567. Introduction to Electronic and Computer Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 270 or permission of instructor.
Description: Introduction to computer music studio, including MIDI sequencing, analog and FM sound synthesis, digital recording and editing, video synchronization, multimedia applications, and comprehensive study of the literature and styles of the class tape studios.
Note: Cross-listed with MUS 667.
Note: Credit not allowed for both MUS 567 and MUS 667.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 568. Advanced Topics in Computer Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 567 or permission of instructor.
Description: Study of advanced synthesis techniques, digital sampling, direct digital synthesis, and study of recent literature and trends in computer music.
Note: Crosslisted with MUS 668.
Note: Credit not allowed for both MUS 568 and MUS 668.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 570. Studies in Music History 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): See note below.
Description: Areas of study are Medieval Music, Renaissance Music, Baroque Music, Viennese Classicism, Romantic Music, Twentieth-Century Music, Jazz, Opera Repertory. MUS 570, MUS 580, and MUS 585 - MUS 586 are intended for master's degree students or advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor. Master's degree students may enroll in these courses at the 600-level under two conditions: (1) when 600-level courses are required by a specific curriculum (e.g., MM in Music History), and (2) with the approval of the student's advisor. Undergraduates may not register in these courses at the 600-level without the approval in writing of the chair of the Music History Department. The following criteria, subject to adjustment by the instructor according to the nature of the course and its organization, will distinguish the work of students registered under one or the other number. Students enrolled in either 500- or 600-level courses are required to write term papers. Research papers at the 600-level are expected to demonstrate originality and the ability to use resources in at least one foreign language, and in general are expected to be of a quality appropriate to a professional paper. While students enrolled at either level are required to participate in a seminar be presenting reports and papers, those registered at the 600-level may be required to assume full responsibility for the development and direction of a study, by the whole class, of a particular subject or problem. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 571. Pedagogy
Term Typically Offered: Fall, Spring
Prerequisite(s): Varies by section—see description.
Description: Topics vary by section. Sections include: (01) Piano Pedagogy; Prereq: MUS 371, MUS 372, MUS 471, MUS 472. Examination, evaluation, and discussion of piano teaching materials at all levels. (03) Advanced Brass Pedagogy Teaching, observing, study, research, and lecture of brass teaching techniques Prereq: For seniors or graduate students only. (05) Voice Pedagogy: Prereq: 3 years of college-level voice study. For advanced students wishing to study the principles and techniques involved in teaching voice, with supervised practice teaching designed to give practical studio teaching experience. (6) Organ Pedagogy Prereq: For Seniors or Grad Study only. Basic concepts of approaching & teaching beginning, intermediate, and advanced organ students. (07) Jazz Pedagogy Addresses pedagogical techniques of teaching jazz. Prereq: MUS 242 and MUS 351, or graduate student standing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 572. Pedagogy
Term Typically Offered: Fall, Spring
Description: Refer to: MUS 571.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 575. Music Production
Term Typically Offered: Fall, Spring
Description: Introduction to computer-based music recording and production using state-of-the-art software.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 576. Multimedia Production
Term Typically Offered: Fall, Spring
Description: Introduction to technical aspects of creating multimedia projects with audio and video hardware and software.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 577. Marching Band Drill Writing
Term Typically Offered: Fall, Spring
Description: Introduces principles of contemporary and traditional drill writing techniques and styles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 578. The Music of the Black Church
Term Typically Offered: Fall, Spring
Description: This course is designed for the upper division or graduate student in music or Pan-African studies and explores the historical and musical development of African American sacred music from slavery to the present; from Spirituals to traditional and contemporary Gospel music. Special emphasis is given to the impact that this music has had on African-American culture in the United States, which represents a synthesis of African and European cultures into a unique hybrid with its own tradition of development.
Note: Cross-listed with PAS 578.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 579. 21st-Century Entrepreneurship for Musicians
Term Typically Offered: Fall, Spring
Prerequisite(s): Open to Juniors, Seniors, and graduate music majors.
Description: Part of a broader effort to transform the ways in which we prepare 21st-century musicians by cultivating the creative and imaginative powers that reside at the heart of the artist-entrepreneur.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 580. Seminars in the Music of the Great Composers
Term Typically Offered: Fall, Spring
Prerequisite(s): For masters students or for advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 582. Seminar in Historical Performance Practice
Term Typically Offered: Occasionally Offered
Prerequisite(s): Graduate standing or faculty consent.
Description: Study and application of performance techniques from different eras based on period sources and modern study.
Note: Knowledge of one foreign language helpful, but not required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 583. Notation and Analysis
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor.
Description: Paleography, transcription and editing of musical manuscripts and publications through the Renaissance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 585. Seminars in the History of Forms, Media, Philosophy, or Techniques of Composition
Term Typically Offered: Fall, Spring
Prerequisite(s): For masters students or for advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 590. Independent Study 0.5-3 Units
Term Typically Offered: Fall, Spring
Description: Students may take no more than 6 hours of Independent Study in fulfilling requirements for any degree.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 591. Special Topics 1-3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Permission of instructor.
Description: One or more advanced topics not treated comprehensively in regular course offerings. To understand why different interpretations of a musical piece are chosen and help student acquire tools to be an independent musician.
Note: May be repeated for credit when topics vary.
Note: Credit not allowed for both MUS 591 and MUS 691 on the same topic.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 592. Suzuki Violin Teacher Training 2 Units
Prerequisite(s): Violin students playing at a minimum level of Seitz Concerto No.5, Movement I, and Vivaldi Concerto in A Minor Movement 3.
Description: An understanding of and training in the Suzuki approach to violin instruction.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 597. Recital 0 Units
Term Typically Offered: Fall, Spring
Description: A grade of "CR" credit will be given when the recital is complete. A student must be simultaneously enrolled in at least one applied music course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 600. Graduate Oral Exam Preparation 0 Units
Grading Basis: Credit/No Credit
Term Typically Offered: Fall, Spring
Description: Prepares students for Graduate Oral Exam. Consists of Oral Dry-Runs and access to on-line audio files of winning Grawemeyer Award compositions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 601. Applied Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 601, MUS 602, MUS 603, and MUS 604 open only to music majors for work and study on the student’s major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 602. Applied Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 601, MUS 602, MUS 603, and MUS 604 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 603. Applied Music 4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 601, MUS 602, MUS 603, and MUS 604 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 604. Applied Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 601, MUS 602, MUS 603, and MUS 604 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 605. Jazz Applied 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to Master of Music Degree in Jazz.
Description: Applied instrumental study for jazz students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 606. Jazz Applied 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 605.
Description: Applied instrumental study for jazz students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 607. Bibliography and Research Methods 3 Units
Term Typically Offered: Fall, Spring
Description: Equips students with specialized bibliographical and methodological knowledge to conduct musical research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 611. Applied Music 2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 611, MUS 612, MUS 613, and MUS 614 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 612. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 611, MUS 612, MUS 613, and MUS 614 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 613. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 611, MUS 612, MUS 613, and MUS 614 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 614. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Courses MUS 611, MUS 612, MUS 613, and MUS 614 open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 611. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 605 and MUS 606.
Description: Applied instrumental study for jazz students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 615. Jazz Applied
Term Typically Offered: Fall, Spring
Prerequisite(s): MUS 605, MUS 606, and MUS 615.
Description: Applied instrumental study for jazz students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 621. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 622. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 623. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 624. Applied Music
Term Typically Offered: Fall, Spring
Prerequisite(s): Faculty consent.
Description: Open only to music majors for work and study on the student's major or principal instrument.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 627. Advanced Elementary Music Methods
Term Typically Offered: Fall, Spring
Description: Advanced work in study of elementary music methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 631. Advanced Methods of Teaching Brass Instruments
Term Typically Offered: Fall, Spring
Description: Problems in teaching brass instruments in the public schools. Research in methods and materials.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 633. Advanced Methods of Teaching Woodwind Instruments
Term Typically Offered: Fall, Spring
Description: Advanced techniques for teaching woodwind instruments.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 637. Advanced Secondary Music Methods
Term Typically Offered: Fall, Spring
Description: Improves sightreading and sightsinging and the teaching of pitch and rhythm. Also covers techniques for designing curricular materials and recruiting and retaining students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 638. Organization and Administration of Instrumental Groups
Term Typically Offered: Occasionally Offered
Description: Organizing, financing, and promoting the instrumental program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUS 640. Advanced Vocal Pedagogy  
Term Typically Offered: Spring Only  
Prerequisite(s): MUS 571 and graduate standing.  
Description: Provides the advanced voice student the opportunity to study the principles and techniques involved in teaching voice, with supervised practice teaching.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 641. Pedagogy of Theory I  
Term Typically Offered: Fall, Spring  
Description: An analysis and discussion of the various methods of teaching the elements of music theory, including a survey of available textbooks and supplementary materials and an exploration of the scholarship of theory pedagogy.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 642. Pedagogy of Theory II  
Term Typically Offered: Fall, Spring  
Description: An analysis and discussion of the various methods of teaching the elements of music theory, including a survey of available textbooks and supplementary materials.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 643. Advanced Private Instruction in Composition and Orchestration I  
Term Typically Offered: Fall, Spring  
Description: Principles and techniques for advanced composition students. One hour private lesson.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 644. Advanced Composition and Orchestration II  
Term Typically Offered: Fall, Spring  
Description: Principles and techniques for advanced composition students. One hour private lesson.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 645. Advanced Composition and Orchestration III  
Term Typically Offered: Fall, Spring  
Description: Principles and techniques for advanced composition students. One hour private lesson.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 646. Advanced Composition and Orchestration IV  
Term Typically Offered: Fall, Spring  
Description: Principles and techniques for advanced composition students. One hour private lesson.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 647. Advanced Chromatic Harmony and Analysis  
Term Typically Offered: Fall, Spring  
Description: Chromatic harmony and voice leading in the context of expanded tonality and extended tonal forms; analytical approaches to the music of the late 19th and early 20th century.  
Note: Credit not allowed for both MUS 547 and MUS 647.

MUS 648. Advanced Post-Tonal Theory and Analysis  
Term Typically Offered: Fall, Spring  
Description: Study of post-tonal theory and analytical methodology. Analysis of centric, atonal, serial, and other music composed since 1900.  
Note: Credit not allowed for both MUS 548 and MUS 648.

MUS 649. Advanced Counterpoint I  
Term Typically Offered: Fall Only  
Prerequisite(s): MUS 550.  
Description: A continuation of the prerequisite counterpoint courses but for the advanced student in the field.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 650. Advanced Counterpoint II  
Term Typically Offered: Spring Only  
Prerequisite(s): MUS 550.  
Description: A continuation of the prerequisite counterpoint courses but for the advanced student in the field.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 651. Schenkerian Analysis  
Term Typically Offered: Fall, Spring  
Prerequisite(s): MUS 550.  
Description: The graphic analytic techniques developed by Heinrich Schenker and the theoretical constructs on which they are based.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 652. Foundations of Music Theory  
Term Typically Offered: Fall, Spring  
Description: A study of selected theoretical writings from the Middle Ages and Renaissance as related to Gregorian Chant and the development of Polyphony.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 653. Advanced Analysis  
Term Typically Offered: Fall, Spring  
Description: Development of the aural and visual comprehension of the elements contributing to style and cohesion in music. May cover diverse historical periods of focus on one period.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### MUS 654. Advanced Jazz Compositional Theory
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 539-02 or permission of instructor.  
**Description:** Applied compositional study for jazz students focusing on contemporary jazz composition with an emphasis on modal harmonic structure.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Corequisite(s)</th>
<th>Grading Basis</th>
<th>Credit Not Allowed For</th>
<th>Typical Offered Term(s)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MUS 654. Advanced Jazz Compositional Theory</td>
<td>2</td>
<td>Fall, Spring</td>
<td>MUS 539-02 or permission of instructor.</td>
<td>Applied compositional study for jazz students focusing on contemporary jazz composition with an emphasis on modal harmonic structure.</td>
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<td></td>
<td>Fall, Spring</td>
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</tbody>
</table>

### MUS 655. Advanced Jazz Improvisation
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Completion of Jazz Theory, MUS 138, and at least 4 semesters of Combo or 4 semesters of Jazz Ensemble, or permission of instructor.  
**Description:** Understanding jazz improvisation through the study of harmony, theory, improvisation, ear training, transcribed solos, articulation, the various song forms/types, basic piano composing and melodic composition.  
**Note:** 1 lecture, 1 lab.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 656. Advanced Jazz Arranging I
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 435 and MUS 436 or permission of instructor.  
**Description:** Focus on arranging and orchestrating for the contemporary jazz orchestra.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 657. Film/TV Scoring
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 435 and MUS 436 or permission of instructor.  
**Description:** Overview of film scoring techniques from inception of the art to the present. May also explore contemporary media (internet, video games).  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 658. Advanced Jazz Arranging II
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 435 or consent of instructor.  
**Description:** Continuation of MUS 656; continue focus on arranging and orchestrating for the contemporary jazz orchestra as well as studio and hybrid orchestra instrumentations.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 659. Seminar in Conducting I
**Term Typically Offered:** Fall Only  
**Description:** Advanced conducting techniques as they apply to choral and instrumental ensembles. Literature to be studied drawn from masterworks of every age.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 660. Seminar in Conducting II
**Term Typically Offered:** Spring Only  
**Description:** Advanced conducting techniques as they apply to choral and instrumental ensembles. Literature to be studied drawn from masterworks of every age.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 661. Literature
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Graduate students only.  
**Description:** To provide overview of solo vocal repertorie in the genre of Oratorio.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 662. Literature
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Graduate students only.  
**Description:** To provide overview of solo vocal repertoire in the genre of solo voice with orchestra.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 663. Graduate Band Pedagogy and Educational Wind Band Literature
**Term Typically Offered:** Fall, Spring  
**Description:** Advanced analytical techniques related to repertoire assessment, focusing primarily on concert band and vocal ensemble music representing difficulty levels 2-4.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 665. Music Theory Seminar
**Grading Basis:** Pass/Fail  
**Term Typically Offered:** Fall, Spring  
**Corequisite(s):** MUS 694 or MUS 695.  
**Description:** Survey current articles, prepare & discuss analyses, and survey current activities & practices in music theory.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))

### MUS 667. Introduction to Electronic and Computer Music
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Must have experience in music composition.  
**Description:** Introduction to the computer music studio including MIDI sequencing, analog and FM sound synthesis, digital recording and editing, video synchronization, multimedia applications, and comprehensive study of the literature and styles of the class tape studios.  
**Note:** Crosslisted with MUS 567.  
**Note:** Credit not allowed for both MUS 567 and MUS 667.  
For class offerings for a specific term, refer to the Schedule of Classes ([http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm))
MUS 668. Advanced Topics in Computer Music 2 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 567.  
**Description:** Study of advanced synthesis techniques, digital sampling, direct digital synthesis, and study of recent literature and trends in computer music.  
**Note:** Crosslisted with MUS 568.  
**Note:** Credit not allowed for both MUS 568 and MUS 668.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 669. Graduate Composition Seminar 0 Units  
**Grading Basis:** Pass/Fail  
**Term Typically Offered:** Fall, Spring  
**Corequisite(s):** MUS 543, MUS 544, MUS 643, MUS 644, MUS 645, MUS 646 or MUS 695.  
**Description:** Examination of broad range of issues surrounding contemporary music composition. Topics include current composers and their works, particularly winners of and nominees for Grawemeyer Award, score presentation and part extraction, performing rights, and career development.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 670. Studies in Music History 3 Units  
**Term Typically Offered:** Fall, Spring  
**Description:** Areas of study are Medieval Music, Renaissance Music, Baroque Music, Viennese Classicism, Romantic Music, Twentieth-Century Music.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 671. Advanced Piano Pedagogy I 2 Units  
**Term Typically Offered:** Fall Only  
**Description:** Examination, evaluation, and discussion of piano teaching materials at the elementary level, with supervised practical studio teaching experience.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 672. Advanced Piano Pedagogy II 2 Units  
**Term Typically Offered:** Spring Only  
**Description:** Examination, evaluation, and discussion of piano teaching materials at the intermediate level, with supervised practical teaching experience.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 673. Advanced Piano Pedagogy III 2 Units  
**Term Typically Offered:** Fall Only  
**Description:** Examination, evaluation, and discussion of adult and group teaching techniques, with supervised practical studio teaching experience.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 674. Advanced Piano Pedagogy IV 2 Units  
**Term Typically Offered:** Spring Only  
**Description:** Discussion of advanced pedagogy teaching techniques, with supervised practical studio teaching experience.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 675. Master's Practice in Collegiate Teaching 1 Unit  
**Term Typically Offered:** Occasionally Offered  
**Description:** Experience under the guidance of faculty members in classroom techniques and practices of collegiate teaching. TBA seminars in professional problems. For master's degree students in music history.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 676. Master's Practice in Collegiate Teaching 1 Unit  
**Term Typically Offered:** Occasionally Offered  
**Description:** Experience under the guidance of faculty members in classroom techniques and practices of collegiate teaching. TBA seminars in professional problems. For master's degree students in music history.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 677. Business Aspects of String Studio Teaching 2 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** Graduate standing.  
**Description:** Acquaints students with all aspects of running a successful independent string studio.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 678. Advanced Pedagogy 2 Units  
**Term Typically Offered:** Fall, Spring  
**Prerequisite(s):** MUS 538 or permission of instructor.  
**Description:** Develops skills to teach intermediate to advanced string instruments in a private lesson setting. Sections will be opened for individual instruments.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 680. Seminars in the Music of Great Composers 3 Units  
**Term Typically Offered:** Fall, Spring  
**Description:** Composer focus varies.  
**Note:** This course may be repeated under different subtitles.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUS 681. Music Notation to c. 1550: History, Transcription, Editing 3 Units  
**Term Typically Offered:** Fall, Spring  
**Description:** A study of notation in western music to c. 1550 including origins and development of western musical notation, transcription into modern notation, editing.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
<th>Credit/No Credit</th>
<th>Grading Basis</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MUS 682</td>
<td>Seminar in Musicology</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Seminar in specialist areas of musicology, such as editing and transcriptions. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 683</td>
<td>Composition for Digital Media I</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Focus on an advanced aspect of computer music. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 684</td>
<td>Composition for Digital Media II</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Continuation of MUS 683. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 686</td>
<td>Orchestral Literature I</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Covers standard orchestral repertoire from the early classical period through the early romantic period. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 687</td>
<td>Orchestral Literature II</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Covers standard orchestral repertoire from the mid-romantic period through the twentieth century. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 690</td>
<td>Independent Study</td>
<td>0.5-3</td>
<td>Fall, Spring</td>
<td>A maximum of 6 credit hours of independent study at the master’s level (9 hours at doctoral level) may be taken to fulfill requirements of any music degree. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 691</td>
<td>Special Topics</td>
<td>1-3</td>
<td>Fall, Spring</td>
<td>One or more advanced topics not treated comprehensively in regular course offerings. Note: May be repeated for credit when topics vary. Note: Credit may not be allowed for both MUS 591 and MUS 691 on the same topic.</td>
<td>MUS 591 and MUS 691.</td>
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<tr>
<td>MUS 694</td>
<td>Research</td>
<td>1-12</td>
<td>Fall, Spring</td>
<td>Subtitles may accompany the course title to indicate the area of research. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 695</td>
<td>Thesis Guidance</td>
<td>2-4</td>
<td>Fall, Spring</td>
<td>Culmination of music education research project. Master’s candidates in music education, music theory-composition, and music history. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 669 for composition students, MUS 665 for theory students.</td>
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<tr>
<td>MUS 697</td>
<td>Graduate Recital</td>
<td>0</td>
<td>Fall, Spring</td>
<td>Culminating graduate recital. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 698</td>
<td>Professional Paper</td>
<td>0</td>
<td>Fall, Spring</td>
<td>Culminating of music education research project. Journal-length scholarly work of publishable quality and length using primary and secondary sources. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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<tr>
<td>MUS 700</td>
<td>Dissertation Research</td>
<td>1-9</td>
<td>Fall, Spring</td>
<td>Research on dissertation project. Grade shall be deferred by the major professor until dissertation submitted for final defense by the student’s committee. For class offerings for a specific term, refer to the Schedule of Classes.</td>
<td>MUS 667 and MUS 668.</td>
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Music Education (MUED)

MUED 505. Introduction to Orff Schulwerk: Music & Movement Education
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Graduate standing, admittance to Teacher Education, upper-division status in Music Therapy, or permission of instructor.
Description: Students will experience and learn fundamental elements of Orff Pedagogy-Music and Movement education. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 516. Music and Movement in Early Childhood
2 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Permission of instructor.
Description: Methods, materials, and philosophic rationales for caregivers, therapists, and teachers in pre-school, daycare, and primary grade settings to develop early childhood music and movement programs. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 605. Pre-Student Teaching: Orientation and General Methods (Vocal)
3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to MAT and Music Professional Year Teacher Education Program.
Description: A study of methods, materials, rehearsal techniques, and classroom and program management techniques appropriate to the major teaching field of the prospective secondary teacher. Note: Students are strongly encouraged to take MUED 605 prior to Student Teaching.
Note: No student may receive credit for both MUED 556 and MUED 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 606. Pre-Student Teaching: Orientation and General Methods (Instrumental)
3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to MAT and Music Professional Year Teacher Education Program.
Description: A study of materials, rehearsal techniques, and classroom and program management techniques appropriate to the major teaching field of the prospective secondary teacher.
Note: No student may receive credit for both MUED 556 and MUED 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 607. Student Teaching Seminar I
3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to MAT and Music Professional Year Teacher Education Program.
Description: Emphasis on multicultural and multiethnic music and the teaching of the same. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 608. Student Teaching Seminar II
2 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Admission to MAT and Music Professional Year Teacher Education Program.
Description: Extension of MUED 607 to include electronic portfolio and advanced studies in applying music education best practices for teaching. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 609. Capstone Seminar
3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Successful student teaching and all other course work for the MAT degree with a music education emphasis, final semester of student teaching, or permission of instructor.
Description: Present professional portfolios, investigate current issues impacting the lives of students with and without disabilities, and assemble resources to further career goals. Note: Fulfills the exit requirements for the MAT degree with a music education emphasis.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 610. Music Student Teaching in the Elementary/Secondary Schools I
6 Units
Term Typically Offered: Fall Only
Prerequisite(s): Admission to teacher education program, MAT, and SIGS.
Description: Provides supervised observation, participation and teaching. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
MUED 611. Music Student Teaching in the Elementary/Secondary Schools II 6 Units
Term Typically Offered: Spring Only
Prerequisite(s): Admission to teacher education program, MAT, and SIGS.
Description: Provides supervised observation, participation and teaching. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 628. Qualitative Research Methods 2 Units
Term Typically Offered: Spring Only
Description: Qualitative research methods and designs for music educators. Topics may include teaching and learning standards, ethnography, case studies, and assessing diverse student populations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 629. Foundations of Music Education 2 Units
Term Typically Offered: Fall Only
Description: Designed to survey major topics in the areas of history, sociology, psychology, and music education. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 630. Quantitative Research Methods & Materials in Music Education 2 Units
Term Typically Offered: Fall Only
Description: Quantitative research analysis methods for music educators. Applications include evaluating achievement & aptitude as related to test analysis, research design, statistical analysis, & research paradigms. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUED 639. Learning Theories in Music Education 2 Units
Term Typically Offered: Spring Only
Description: Current trends and theories of music learning and related topics in music education. Applications, interpretations, and adaptations of these materials will be addressed. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Music Education (MUSE)

MUSE 525. Public School Music 3 Units
Term Typically Offered: Not Offered
Description: Music fundamental and best practice for the classroom teacher as applied in P-6 settings. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

MUSE 590. Independent Study 1-3 Units
Term Typically Offered: Not Offered
Description: Independent study on a topic done in consultation with a faculty member. Note: Not open to music majors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Nursing (NURS)

NURS 500. Variables Impacting Health Care Delivery: A Global Context 3 Units
Description: Disparities in international health care delivery and the contributing variables will be explored. Culture-specific content is based on the country of study and is delivered by the interdisciplinary faculty. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 501. Pathophysiology 4 Units
Prerequisite(s): Department Permission.
Description: This course emphasizes the synthesis of preexisting knowledge of normal physiology to understand pathophysiological processes common among individuals and populations across the lifespan. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 502. Pharmacology 3 Units
Prerequisite(s): Department Permission.
Description: This course is designed to provide nursing students with a sound basis for the clinical application of pharmacology. The basics of core drug knowledge, including pharmacotherapeutics, pharmacodynamics, and pharmacokinetics are covered. Emphasis is placed on learning drug classifications by clinical indication or body system with advanced understanding of potential drug interactions, pharmacogenetics and pharmacoeconomics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 503. Health Assessment 3 Units
Prerequisite(s): NURS 501 and NURS 502; admitted to MSN program.
Description: The focus of this course is on the assessment component of the nursing process. A systematic approach to interviewing and physical exam techniques across the lifespan (neonate to generic) is emphasized. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 504. Leadership 3 Units
Prerequisite(s): NURS 404, NURS 405, and NURS 607.
Description: This course is designed to provide the student with theoretical principles and skills needed for leadership and professional role development within complex healthcare systems. Effective communication as a member of an interprofessional team, leadership focusing on the delivery of patient-centered care, strategies to provide quality cost-effective healthcare will be emphasized. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 506</td>
<td>Leadership/EBP/Policy</td>
<td>2</td>
<td>NURS 408 and NURS 608.</td>
<td>This practicum will require students to formulate a leadership/management, policy or evidence-based project based on the assessed needs of their clinical site. With approval from their clinical preceptor and their instructor, students will apply knowledge and skills acquired in their master's course work in the completion of the project and the presentation of outcomes/findings. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 507</td>
<td>Transitions to Practice</td>
<td>2</td>
<td>NURS 408 and NURS 608.</td>
<td>This course will assist students to make the transition to professional nursing practice. Students will learn about current legislative and practice issues, discuss legal aspects of nursing practice, and prepare for the certification and licensure process. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 575</td>
<td>Introduction to Forensic Nursing</td>
<td>2</td>
<td>Must be admitted to the upper division undergraduate nursing program or graduate nursing program.</td>
<td>An elective course to introduce the students to the role of the forensic nurse. This experimental course covers forensic principles as they relate to the living and field experiences are integrated. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 600</td>
<td>Genetics</td>
<td>2</td>
<td></td>
<td>This course will integrate clinical applications of genomics including current ethical, legal and social issues and emphasize the responsibility of the advanced practical nurse. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 601</td>
<td>Primary Care I</td>
<td>3</td>
<td>NURS 605, NURS 655, and NURS 611.</td>
<td>This course is an introduction to primary care of the adolescent and adult. Emphasis is placed on health promotion, problem identification, and management of common health problems. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 602</td>
<td>Primary Care II</td>
<td>3</td>
<td>NURS 601.</td>
<td>This course provides an in-depth analysis of primary care of the adolescent and adult. Emphasis is on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 603</td>
<td>Family Health</td>
<td>1</td>
<td>NURS 600, NURS 605, NURS 611, NURS 651, NURS 655, NURS 656, and NURS 657.</td>
<td>This course provides a foundation in family health concepts and family assessment for advanced practice nurses. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>NURS 604</td>
<td>Transition to Practice</td>
<td>2</td>
<td>Matriculation to specialty-specific clinical track course.</td>
<td>This course will assist completing students to make an easier transition to practice as advanced practice nurses. Students will focus on portfolio development, preparation for certification, and legislative/practice issues. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>NURS 605</td>
<td>Theoretical Application for Practice</td>
<td>3</td>
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<td>This course explores the congruence of conceptual frameworks and theories from nursing and other disciplines and their use in clinical practice, education, research and administration. Leadership, quality improvement, translational science and organizational sciences for the continual improvement of nursing care of diverse populations are examined. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<td>NURS 606</td>
<td>Healthcare Systems</td>
<td>3</td>
<td></td>
<td>The U.S. healthcare system evolution, services, policy, and delivery are examined and compared politically, ethically, technologically, environmentally, and socioeconomically. Availability, access, regulation, and accountability are considered using systems theory. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 607</td>
<td>Foundation Concepts of Evidence Based Practice</td>
<td>3</td>
<td>NURS 652 or Biostatistics.</td>
<td>This course introduces the student to evidence based practice models and research design and methods. Students will learn the process of critically evaluating the literature for evidence based practice. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 608</td>
<td>Healthcare Systems and Economics</td>
<td>3</td>
<td></td>
<td>This course prepares the student to navigate complex health care systems. An emphasis is placed on principles of systems theory, healthcare economics, models of service delivery, quality and strategies for effective inter-professional collaboration. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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NURS 609. Research Design and Professional Writing 3 Units
Prerequisite(s): Admission to the MSN program or consent of Instructor.
**Description:** This course is an overview of nursing research using multiple designs and methods. Ethical issues, data management and analysis of findings are included. Instruction in scientific writing is integrated.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 610. Nurse Educator Clinical/Practicum 2 Units
**Grading Basis:** Pass/Fail
Prerequisite(s): NURS 605 and NURS 652; NURS 657 (or concurrent), ELHF 661 (or concurrent), and ELFH 683 (or concurrent).

**Description:** This course is designed so that students gain clinical expertise with a population of interest and apply that knowledge to the nurse educator role. The integration of evidence based nursing practice and educational concepts in the clinical and classroom settings is emphasized.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 611. Graduate Pharmacology for Advanced Practice Nurses 3 Units
**Prerequisite(s):** Entrance to the Graduate Program in the School of Nursing.

**Description:** This course will provide the nurse practitioner student with a sound basis for clinical application of pharmacology. Emphasis is placed on learning drug classifications by clinical indication or body symptoms.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 612. Philosophy of Science 3 Units
**Prerequisite(s):** Enrollment in the doctoral program.

**Description:** Overview and critical analysis of science as a way of knowing, including epistemological and ontological implications of differing approaches to knowledge generation.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 613. Introduction to Health Care Policy 3 Units
**Description:** This course provides the student with the understanding of the role of the nurse as leader and advocate in health policy at the local, state, regional, national and global level. Students will analyze and evaluate how policy influences health care delivery in the context of stakeholders, politics and economics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 615. Advanced Clinical Practice: Women's Health Nurse Practitioner, Clinical I 2 Units
**Prerequisite(s):** NURS 660 and NURS 661.

**Corequisite(s):** NURS 602, NURS 604, NURS 616, and NURS 619.

**Description:** This clinical course places an emphasis on advanced psychomotor skills used by Women's Health Nurse Practitioners across a variety of obstetric and gynecologic settings. The clinical experience focuses on comprehensive patient assessment, diagnosis and management of acute health problems for women and their families.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 616. Women's Health Nurse Practitioner I 3 Units
**Prerequisite(s):** NURS 601, NURS 660, and NURS 661.

**Corequisite(s):** NURS 602, NURS 604, NURS 615, and NURS 619.

**Description:** This is the first in a series of four courses (two didactic; two clinical) which assist students to develop the role of the Women's Health Nurse Practitioner. The focus of the initial course is on the health and well being of girls and women across the life-span. It emphasizes the application of concepts, principles and skills needed to provide care for common, well-defined obstetric and gynecologic health processes and problems of adolescents and adults frequently encountered by Women's Health Nurse Practitioners. The focus of this course is identifying between normal and abnormal, and in making beginning differential diagnoses.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 617. Advanced Clinical Practice: Women's Health Nurse Practitioner (WHNP), Clinical II 1 Unit
**Prerequisite(s):** NURS 604, NURS 615, NURS 616, and NURS 619.

**Corequisite(s):** NURS 618.

**Description:** This clinical course places an emphasis on the role of the advanced practice nurse as a member of the health care team in obstetric settings. The clinical experience focuses on comprehensive patient assessment, diagnosis and management of obstetric health problems for women and their families.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 618. Women's Health Nurse Practitioner II 4 Units
**Prerequisite(s):** NURS 604, NURS 615, and NURS 616.

**Corequisite(s):** NURS 617.

**Description:** This is the second in a series of four courses (two didactic; two clinical) which assist students to develop the role of Women's Health Nurse Practitioner. The focus of this course is on the diagnosis and management of complex health issues affecting multicultural women across the life-span. It emphasizes the application of concepts, principles and skills needed to provide care for more complex obstetric and gynecologic health processes and problems of adolescents and adults frequently encountered by Women's Health Nurse Practitioners (WHNP’s). The focus of this course is developing differential diagnoses for abnormal conditions, recognizing those issues within the scope of practice for WHNP’s, and when referral to other health care providers is warranted.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 619. Advanced Skills Laboratory: Women's Health Nurse Practitioner 1 Unit
**Prerequisite(s):** NURS 602, NURS 660, and NURS 661.

**Corequisite(s):** NURS 604, NURS 615, and NURS 616.

**Description:** This laboratory course places an emphasis on advanced psychomotor skills used by Women's Health Nurse Practitioners across a variety of obstetric and gynecologic settings. These skills are learned and practiced in the classroom setting before application in the clinical setting.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 622. Advanced Clinical Practice: Adult Clinical Nurse Specialist I 6 Units  
Prerequisite(s): NURS 600, NURS 605, NURS 611, NURS 651, NURS 655, NURS 657.  
Corequisite(s): NURS 653.  
Description: Explores the theoretical and practice applications of the Adult CNS in a variety of clinical settings. The clinical practicum is designed by faculty and students to promote CNS competencies in the sphere of influence; patient/client.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 623. Advanced Clinical Practice: Adult Clinical Nurse Specialist II 7 Units  
Prerequisite(s): NURS 622.  
Description: Explores the theoretical and practice applications of the Adult CNS in a variety of clinical settings. The clinical practicum is designed by faculty and students to promote CNS competencies in the sphere of influence: nursing personnel and organization/network.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 624. Advanced Clinical Practice: Adult-Gerontology Primary Care Nurse Practitioner I 3 Units  
Prerequisite(s): NURS 656.  
Description: The purpose of this course is to provide clinical experience in comprehensive patient assessment, diagnosis and management of common primary health problems in adolescent, adult, geriatric patient populations. Students will begin practicing the role of an APRN under preceptor supervision.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 625. Advanced Clinical Practice: Adult-Gerontology Primary Care Nurse Practitioner II 3 Units  
Prerequisite(s): NURS 624.  
Description: The purpose of this course is to provide advanced clinical experience in comprehensive patient assessment, diagnosis and management of common and complex primary health problems in adolescent, adult, and geriatric patient populations. Students will strengthen and enhance their advanced practice skills with preceptor supervision.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 626. Advanced Clinical Practice: Adult Nurse Practitioner 3 3 Units  
Prerequisite(s): NURS 602, NURS 604, NURS 624, and NURS 625.  
Description: The focus of this clinical course is the synthesis of theoretical and evidence-based practice skills necessary to implement the nurse practitioner role in a holistic manner that will advance nursing knowledge and the health of patients.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 629. Advanced Health Assessment of the Neonate 3 Units  
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 652, and NURS 655.  
Corequisite(s): NURS 658.  
Description: This course is an in-depth study of neonatal assessment techniques and normal versus abnormal variations seen in the newborn. Emphasis is on the clinical presentation of the newborn, utilizing concepts from development anatomy and physiology as well as intrauterine factors that may alter findings. Students will learn advanced physical examination, gestational age, and neurobehavioral assessment skills specific to the neonate.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 630. Neonatal Pathophysiology 2 Units  
Prerequisite(s): Admission to the MSN program, Neonatal Nurse Practitioner track.  
Description: Advanced neonatal pathophysiology serves as a basis for clinical management of the neonate.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 633. Advanced Neonatal Pathophysiology and Clinical Management I 4 Units  
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 652, NURS 655, NURS 658, and NURS 657.  
Corequisite(s): NURS 637.  
Description: This course provides a foundation in the cellular processes upon which neonatal pathophysiology occurs. Synthesis of topics in human embryology is the foundation for understanding specific neonatal pathophysiologic processes. Common pathophysiologic neonatal diseases and how they deviate from normal physiology are presented using a systems approach. Integrated into the course are diagnostic reasoning skills needed to manage the care of a critically ill neonate. Students will evaluate presenting clinical signs in the neonate requiring intensive care, determine the appropriate diagnosis and differential diagnoses, identify appropriate diagnostic tests and exams to determine the appropriate diagnosis in neonates with a variety of problems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 634. Advanced Clinical Practice: Neonatal NP II 2 Units  
Prerequisite(s): NURS 629, NURS 633, and NURS 600.  
Description: This course provides a theoretical foundation for evidence based neonatal nurse practitioner practice. Clinical management of cardiovascular, gastrointestinal, integumentary and hematologic systems will be the focus.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 635. Advanced Neonatal Pathophysiology and Clinical Management II 4 Units
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 636, NURS 652, NURS 655, NURS 657, and NURS 658.
Corequisite(s): NURS 637.
Description: This course is the second of two courses that provides the student with didactic preparation in the concepts of advanced neonatal pathophysiology based upon normal neonatal physiology. Synthesis of topics in human embryology, genetics, and advanced neonatal pathophysiology and clinical management provides the foundation for understanding complex neonatal pathophysiologic processes. Complex pathophysiologic neonatal diseases and how they deviate from normal physiology are presented using a systems approach. Integrated into the course is the diagnostic reasoning needed to manage the care of the critically ill neonate. Topics addressed in course include those recommended to prepare the student for national certification as a neonatal nurse practitioner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 636. Neonatal Nurse Practitioner Residency I 3 Units
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 636, NURS 652, NURS 655, NURS 657, and NURS 658 (or concurrent).
Description: The purpose of the NNP Residency is to provide neonatal nurse practitioner students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICU’s to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows development of increased skill and independence in decision-making as a NNP. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 637. Neonatal Nurse Practitioner Residency II 3 Units
Prerequisite(s): NURS 604, NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 633, NURS 636, NURS 652, NURS 655, NURS 657, and NURS 658.
Corequisite(s): NURS 635.
Description: This is the second and final residency course for NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICU’s to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows development of increased skill and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 638. Advanced Psychiatric Assessment and Clinical Interviewing Techniques 1 Unit
Description: The focus this course is the use of clinical interviewing techniques and psychiatric assessment of in determining the mental health status of clients throughout the lifespan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 639. Advanced Psych Nurse Practitioner Mental Health Assessment Clinical 1 Unit
Prerequisite(s): NURS 638 and NURS 647.
Description: Course focuses on Initial Implementation of the APPMHN role: psychiatric assessment and interviewing strategies utilizing the current Diagnostic and Statistical Manual for diagnosing psychopathology. The practicum focuses on a lifespan approach with select clients in multicultural contexts who are at risk for or are experiencing dysfunction in the area of mental health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 641. Advanced Psychiatric Mental Health Nurse Practitioner I: Theory 3 Units
Description: Course introduces the advanced practice role with a focus on at least 3 modes of therapy across the lifespan and in multicultural contexts. Relevant literature, professional practice guidelines and current best practice standards will guide the selection of intervention models across the continuum of care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 642. Advanced Psychiatric Mental Health Nurse Practitioner II: Theory 3 Units
Prerequisite(s): NURS 638, NURS 641, and NURS 645.
Corequisite(s): NURS 646.
Description: Course provides in-depth study of PMH interventions for clients with complex or co-morbid diagnoses. A lifespan approach encompassing diverse and multicultural contexts will be utilized. Relevant literature, professional practice guidelines and current best practice standards will guide the selection of intervention models across the continuum of care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 645. Advanced Psychiatric Mental Health Nurse Practitioner I: Clinical 3 Units
Prerequisite(s): NURS 638, NURS 647, and NURS 649.
Corequisite(s): NURS 641.
Description: Course focuses on initial implementation of the APPMHN role: psychiatric assessment, diagnosis and intervention strategies including psychopharmacology. The practicum focuses on a life span approach with select clients in multicultural contexts who are at risk for or are experiencing dysfunction in the area of mental health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 646. Advanced Psychiatric Mental Health Nurse Practitioner II: Clinical 2 Units
**Prerequisite(s):** NURS 638, NURS 641, NURS 647, and NURS 649.
**Corequisite(s):** NURS 642.
**Description:** Course continues focus on implementation of APPMHN role. The practicum focuses on PMH interventions using a lifespan approach with individuals, families, and/or groups in diverse multi-cultural contexts who are experiencing co-morbid of complex psychiatric diagnoses. A variety of relevant intervention models will be utilized across the continuum of care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 647. Advanced Psychopathology Across the Lifespan 2 Units
**Description:** This course is a comprehensive study of essential developmental and psychopathology across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic, and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 648. Advanced Clinical Assessment: Psych/Mental Health Nursing 3 Units
**Prerequisite(s):** Basic physical/health assessment skills are necessary; Formal basic courses or continuing education courses in physical health assessment are acceptable.
**Description:** Builds upon basic assessment skills. The nurse's knowledge will be expanded to enable the development of the advanced practice role. Critical thinking and communication skills will be enriched by an accurate interpretation of a holistic approach to advanced clinical assessment of the adult.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 649. Advanced Psychopharmacology Across the Lifespan 2 Units
**Prerequisite(s):** NURS 611 (or concurrent).
**Description:** This course is a comprehensive study of essential psychopharmacology used across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic, and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 651. Evidence Based Nursing for Advanced Practice 3 Units
**Prerequisite(s):** NURS 652 and graduate-level Statistics (applied descriptive & inferential statistics); NURS 605 (or concurrent).
**Description:** Analysis of the value of research in advanced nursing practice. Focus is on the research theory and process, ethics, critique of the literature, and dissemination of findings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 652. Advanced Statistical Application 3 Units
**Description:** This course will expose the student to basic and advanced concepts and practical applications of statistics. The student will learn to analyze data sets to address hypotheses and make inferences to populations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 653. Advanced Practice Roles 2 Units
**Prerequisite(s):** Admission to the Graduate Program in Nursing.
**Description:** This web-enhanced course focuses on the advanced practice roles of educator, consultant, researcher, leader, and expert practitioner. Scope of practice, credentialing, reimbursement and future issues are also addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 654. Informatics in Health Care 3 Units
**Description:** National Nursing Informatics (NI) competencies will be covered as well as core NI principles, knowledge acquisition, process, generation and dissemination. Students will be prepared at the level of informatics innovators.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 655. Advanced Pathophysiology: Clinical Decision Making 3 Units
**Prerequisite(s):** Understanding of normal anatomy and physiology as well as basic pathophysiology.
**Description:** The focus of this foundational course is on understanding pathological processes common among individuals of all ages.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 656. Advanced Clinical Assessment 3 Units
**Prerequisite(s):** NURS 655.
**Description:** This course builds upon the basic critical thinking and psychomotor skills that professional nurses use in client care. Emphasis is on the physical, psychosocial, and cultural assessment of individuals and families.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 657. Health Promotion and Disease Prevention in Culturally Diverse and Vulnerable Populations. 3 Units
**Prerequisite(s):** Enrollment in master's degree program.
**Description:** This course provides an overview of health behavior at the level of the individual family, community and clinical/aggregate populations. The effects of individual health beliefs, cultural variables, readiness for change, community environment, and health disparities will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 658. Advanced Neonatal Pharmacology 3 Units
**Prerequisite(s):** NURS 605, NURS 607, NURS 608, NURS 613, NURS 633, NURS 636, NURS 652, and NURS 655.
**Corequisite(s):** NURS 629.
**Description:** This course provides a basis for understanding the pharmacokinetics and actions of specific groups of drugs commonly used in neonatal advanced nursing practice. Emphasis is placed on pharmacological action of drugs, side effects, appropriate dosing, monitoring, drug interactions and guidelines for use of drugs in the critically ill neonate from admission to the NICU to discharge. Legal and ethical considerations of prescriptive practice are also addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 659. Life-Span Issues in Pathophysiology for Clinical Decision Making  
Description: Will provide the student with an opportunity to examine and apply pathophysiological concepts across the lifespan utilizing critical thinking and decision-making by the graduate level nurse. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 660. Family Nursing  
Prerequisite(s): NURS 605, NURS 655, NURS 656, and NURS 611. 
Description: This course is an introduction to Advanced Family Practice Nursing. It provides a theoretical and practical base for the health care management of childbearing and childrearing families. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 661. Advanced Clinical Practice: Family Nurse Practitioner Clinical I  
Prerequisite(s): NURS 656 and NURS 611. 
Description: The clinical experience focuses on comprehensive patient assessment, diagnosis and management of acute health problems for individuals and their families. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 662. Advanced Clinical Practice: Family Nurse Practitioner Clinical II  
Prerequisite(s): NURS 601 and NURS 661. 
Description: The clinical experience focuses on comprehensive patient assessment, diagnosis and management of chronic health problems for individuals and their families. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 663. Advanced Clinical Practice: Family Nurse Practitioner  
Prerequisite(s): NURS 601, NURS 602, and NURS 661. 
Description: This clinical experience focuses on synthesis of theoretical, scientific, and clinical knowledge as well as practice-based skills in the diagnosis and management of existing and potential health problems. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 664. Common Health Problems of the Pediatric Client  
Prerequisite(s): NURS 601, NURS 605, NURS 655, NURS 656, NURS 657, and NURS 611. 
Description: Focus is on the Family Nurse Practitioner’s role in the identification and management of selected acute, chronic and emergent health problems of the pediatric client. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 665. Primary Care of the Aged: Leadership and Practice  
Prerequisite(s): NURS 600, NURS 650, NURS 611, NURS 651, NURS 655, NURS 656, and NURS 657; or National Certification as FNP or ANP. 
Description: Develop health assessment and health promotion skills to determine age-related changes in older adults. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 666. Primary Care of Older Adults  
Prerequisite(s): NURS 611, NURS 655, and NURS 656. 
Description: This course provides an in-depth analysis of primary care of the older adult. Emphasis is on assessment, interpretation, and management of age-related functional and cognitive changes. The advanced practice nurse’s role will be examined both as an individual practitioner and as a member of a collaborative inter-professional healthcare team. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 667. Applied Geriatric Pharmacology in Nursing Practice  
Description: This course builds principles and content of advanced nursing pharmacology. It is designed to provide the adult gerontology nurse practitioner student with knowledge of pharmacokinetics, pharmacodynamics, and polypharmacy as related to the older adult. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 668. Primary Care of Older Adults  
Prerequisite(s): NURS 600, NURS 650, NURS 611, NURS 651, NURS 655, NURS 656, and NURS 657; or National Certification as FNP or ANP. 
Description: Develop health assessment and health promotion skills to determine age-related changes in older adults. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 670. Cancer Epidemiology and Pathophysiology  
Prerequisite(s): NURS 550 or NURS 605, NURS 611, NURS 651, NURS 655, and NURS 656 (or concurrent). 
Description: This course provides an opportunity to synthesize cancer-specific epidemiology and pathophysiology concepts for critical thinking and decision-making by the nurse in an advanced practice role in caring for patients with cancer and their families across the cancer-care continuum. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 671. Evidence-Based Cancer Treatment  
Description: This course provides the student an opportunity to integrate knowledge and principles of cancer treatment, associated responses and symptom management, and the late-effects of cancer treatment. Emphasis is placed on current theory and research in examining evidence-based nursing interventions to improve outcomes for clients with cancer and their families. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 672. Advanced Oncology Clinical Practice I  
Prerequisite(s): NURS 605, NURS 611, NURS 651, NURS 655, and NURS 656; or NURS 656 (or concurrent) and NURS 671 (or concurrent). 
Description: This course entails didactic classroom instruction and a mentored clinical practicum, which will provide students an opportunity to synthesize and apply knowledge in the clinical management of complex physical, cognitive, and psychosocial responses to cancer and its treatment. 
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### NURS 673. Advanced Oncology Clinical Practice II

**Prerequisite(s):** NURS 605, NURS 611, NURS 651, NURS 655, and NURS 656; NURS 653 (or concurrent), NURS 671 (or concurrent), and NURS 672 (or concurrent).

**Description:** This didactic and clinical course will provide the student with an opportunity to develop expertise in clinical judgment and consultation, facilitation of learning; intra-and inter-disciplinary collaboration; systems thinking and care-delivery models; and advocacy and moral agency. A case-study approach will be used to analyze and systematically evaluate the multiple roles of the advanced oncology nurse. For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

**Units:** 7

### NURS 674. Adult-Gerontology Acute Care Nurse Practitioner I

**Prerequisite(s):** NURS 611, NURS 655, and NURS 656.

**Description:** This course is an introduction to the acute care of adult-gerontology patients. Emphasis is placed on health promotion, health protection, problem identification, and management of complex health problems. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team. For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

**Units:** 4

### NURS 675. Advanced Clinical Practice: Adult-Gerontology Acute Care Practitioner, Clinical I

**Prerequisite(s):** NURS 611, NURS 655, and NURS 656.

**Description:** This clinical course places an emphasis on the assessment, diagnosis and collaborative management of adult clients who are acutely/critically ill or experiencing an exacerbation of a chronic health problem. The clinical focus is on the Adult-Gerontology Acute Care Nurse Practitioner performing health assessments, interpretation of data and the implementation of a collaborative plan of care. For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

**Units:** 3

### NURS 676. Adult-Gerontology Acute Care Practitioner II

**Prerequisite(s):** NURS 674.

**Description:** This course provides an in-depth analysis of adult acute-gerontology care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute complex health problems. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team. For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

**Units:** 4

### NURS 677. Advanced Clinical Practice: Adult-Gerontology Acute Care Practitioner, Clinical II

**Prerequisite(s):** NURS 675.

**Description:** This clinical course emphasizes advanced assessment, advanced diagnosis, and collaborative management of adult clients who are acutely/critically ill or experiencing an exacerbation of a chronic health problem. The clinical focus is on the Adult-Gerontology Acute Care Nurse Practitioner in performing complex health assessments, interpretation of data, and the implementation of a collaborative plan of care. This course builds on the clinical experiences in NURS 675. For class offerings for a specific term, refer to the Schedule of Classes [here](http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

**Units:** 3
NURS 702. Philosophy of Science 3 Units
Prerequisite(s): Admission to PhD Nursing; BSN-PhD students must have 18 credits of required MSN courses completed.
Description: This course examines philosophies of science and epistemologies and their influence on knowledge development of nursing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 710. Research Methodology I: Qualitative Research Methods 3 Units
Prerequisite(s): NURS 700 and NURS 702
Description: This course examines qualitative methods as a scientific approach for building nursing knowledge. Qualitative research methods will be analyzed and applied. Ethical issues in conducting qualitative research will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 711. Research Methodology II: Quantitative Design 3 Units
Prerequisite(s): NURS 700 and NURS 702; one doctoral-level stats course; second doctoral-level stats course (or concurrent).
Description: This course examines quantitative methods as a scientific approach for building nursing knowledge. Quantitative research methods will be analyzed and applied. Ethical issues in conducting quantitative research will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 712. Research Methodology III: Nursing Measurement 3 Units
Prerequisite(s): NURS 711; two doctoral-level statistics courses.
Description: This course focuses on measurement of health-related phenomena. Measurement methods and instrument development are discussed. The psychometric and biometric properties of instruments used in research are evaluated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 713. Research Methods Practicum 2 Units
Prerequisite(s): NURS 710 and NURS 711; NURS 712 (or concurrent).
Description: This guided practicum in the area of research methodology will allow students to gain mastery of a specific methodology that a PhD prepared nurse scientist may be expected to employ.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 714. Research Methodology IV: Analysis of Existing Data 3 Units
Prerequisite(s): NURS 712; two doctoral-level statistics courses.
Description: This course focuses on the analysis, interpretation, and presentation of existing quantitative data. Students will develop skills in the application of a variety of quantitative analysis strategies using existing data. Students will identify hypotheses and/or research question, test them using statistical methods, and interpret the results.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 720. Seminar in Advanced Leadership 3 Units
Description: Students will synthesize leadership concepts and theories with personal, professional, and organizational values within the changing political, ethical and sociocultural context in which leadership is practiced.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 721. Leadership Practicum 1 Unit
Prerequisite(s): NURS 720.
Description: This guided practicum in the area of research methodology will allow students to gain mastery of a leadership role PhD prepared nurse scientists may be expected to fulfill.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 725. Leadership and Health Policy for the Doctorally Prepared Nurse 3 Units
Description: This guided practicum in the area of research methodology will allow students to gain mastery of a leadership role PhD prepared nurse scientists may be expected to fulfill.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 730. Health Policy: An Evidence-Based Approach 3 Units
Prerequisite(s): NURS 700 or by permission of the instructor.
Description: This course will examine the role of the nurse scientist in analyzing and developing health policy using an evidence-based framework.
Note: Foundational to NURS 731.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 731. Health Policy Practicum 1 Unit
Prerequisite(s): NURS 730.
Description: This guided practicum in the area of nursing health policy will allow students to gain mastery of a role a PhD nurse scientist may be expected to fulfill.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 735. PhD Seminar I 1-3 Units
Description: This is the first of four courses that examine issues critical to socialization into the role of a nurse scientist.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 736. PhD Seminar II 1 Unit
Prerequisite(s): NURS 735.
Description: This is the second of four courses that examine issues critical to socialization into the role of a nurse scientist.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### NURS 737. PhD Seminar III
**Prerequisite(s):** NURS 736.
**Description:** This is the third of four courses that examine issues critical to socialization into the role of a nurse scientist. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 738. PhD Seminar IV**
**Prerequisite(s):** NURS 737.
**Description:** This is the last of four courses that examine issues critical to socialization into the role of a nurse scientist. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 740. Advanced Pharmacology**
**Prerequisite(s):** Enrollment in the doctoral program.
**Description:** This course is designed to provide advanced practice nursing students with a sound basis for the clinical application of pharmacology. Core drug knowledge, including pharmacotherapeutics, pharmacodynamics and pharmacokinetics are discussed. Emphasis is placed on learning drug classifications by clinical indication with an advanced understanding of potential drug interactions, side effects, and goals of pharmacologic therapy. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 741. Advanced Pathophysiology**
**Description:** This course provides the student an opportunity to synthesize pathophysiological concepts essential for critical thinking and clinical decision-making by the nurse in an advanced practice role. The focus of this foundational course is on understanding pathological processes common among individuals of all ages by using knowledge from genetics, the biophysical and psychosocial sciences, and current research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 742. Advanced Physical Assessment**
**Description:** This advanced health assessment course will focus on both normal and normal variant finding in the population of patients from adolescence to geriatrics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 743. Epidemiology**
**Description:** This course will focus on the theory and concepts of epidemiology and social determinants of health, and how they can be applied to the field of nursing. This course will apply and integrate the principles and tools of epidemiology to the decision-making in a health care environment. The student will identify the different study designs and how each of them can be applied to answer specific questions related to population-based health care. Emphasis will also be placed on the application of appropriate analytic methods for these different designs and questions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 744. Synthesis and Evaluation of Evidence in Practice**
**Description:** In this advanced course, students will critically evaluate, translate, and apply to practice evidence from a variety of sources. An emphasis is placed on the synthesis and dissemination of evidence. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 745. Health Information Technology**
**Description:** This course provides an introduction to the use of information technology in health care and health care systems. Factors that facilitate or prevent successful use of health care technology will be examined. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 746. Program Development & Evaluation**
**Prerequisite(s):** NURS 743 and NURS 744.
**Description:** This course explores techniques and strategies used for designing, implementing and evaluating programs. Students will assess population needs, develop appropriate goals, determine intervention strategies and resource needs, and implement evaluation mechanisms. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 747. Finance Management**
**Description:** This course focuses on the financial and business aspects of health care delivery. An emphasis is on the instruments and concepts used for analysis of practice initiatives and the development and implementation of effective plans to improve health outcomes. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 748. Transformational Leadership**
**Description:** This advanced course focuses on the application of leadership and political theories in health care delivery. Students will apply transformational leadership skills to influence health policy change and serve as an advocate. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**NURS 750. DNP Project 1: Project Inception**
**Grading Basis:** Pass/Fail
**Description:** In this course students will identify an area of interest and develop a DNP Project. The DNP Project will require the student to synthesize the evidence and apply the competencies learned throughout the curriculum to improve outcomes in health care systems. Students will have their completed proposal approved and will submit the proposal to the IRB as applicable. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Grading Basis</th>
<th>Prerequisite(s)</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NURS 751</td>
<td>DNP Project 2: Project Implementation</td>
<td>3</td>
<td>Pass/Fail</td>
<td>NURS 750</td>
<td>Description: In this course students will implement their DNP Project. The DNP Project will require the student to synthesize and apply the competencies learned throughout the curriculum to improve outcomes in health care systems. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>NURS 752</td>
<td>DNP Project 3: Project Evaluation, Analysis and Dissemination</td>
<td>3</td>
<td>Pass/Fail</td>
<td>NURS 750</td>
<td>Description: In this course students will complete an evaluation and analysis of the DNP Project. Students will disseminate the completed DNP Project. The DNP Project will require the student to synthesize and apply the competencies learned throughout the curriculum to improve outcomes in health care systems. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>NURS 753</td>
<td>Adolescent Well Child Theory</td>
<td>1</td>
<td></td>
<td>NURS 740 and NURS 741</td>
<td>Description: This course is an introduction to advanced practice nursing. It provides a theoretical and practical base for the health care management of pediatric and adolescent clients. Emphasis is on the analysis and the implementation of the advanced practice nurse's role in the identification, prevention, and management of common pediatric health concerns. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>NURS 754</td>
<td>Clinical Reasoning in Advanced Practice Nursing</td>
<td>1</td>
<td></td>
<td>NURS 740 and NURS 741</td>
<td>Description: This course will prepare the advanced practice nurse to make clinical decisions using a variety of decision making modalities. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>NURS 755</td>
<td>Diagnosis and Management of Adult Health in Primary Care</td>
<td>4</td>
<td></td>
<td>NURS 740 and NURS 741</td>
<td>Description: This course provides an in-depth analysis of primary care of the adolescent and adult. Emphasis is on differentiating signs and symptoms, formulating diagnoses, and management of acute and chronic conditions commonly encountered in primary care. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative inter-professional healthcare team. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
</tr>
<tr>
<td>NURS 756</td>
<td>Procedures &amp; Diagnostics for Adult Health</td>
<td>2</td>
<td></td>
<td>NURS 742 and NURS 754</td>
<td>Description: This course introduces the advanced psychomotor and diagnostic skills used in procedures that are commonly performed in the primary care setting. Emphasis is placed on indications, procedural techniques, and potential complications. Skills are taught in laboratories with a hands-on approach before application in the clinical setting. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 757</td>
<td>Diagnosis and Management of Women's Health in Primary Care</td>
<td>2</td>
<td></td>
<td>NURS 740 and NURS 741</td>
<td>Description: The focus of this course is to the health and well-being of girls and women across the life-span. It emphasizes the application of concepts, theories, principles, and findings needed to provide care for common, well-defined obstetric and gynecologic health processes and problems of female adolescents and adults frequently encountered by nurse practitioners. The focus of this course is identifying between normal and abnormal, and in making differential diagnosis. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 758</td>
<td>Diagnosis and Management of Mental Health in Primary Care</td>
<td>2</td>
<td></td>
<td>NURS 742 and NURS 754</td>
<td>Description: The focus of this course is on the mental health and well-being of individuals across the life-span. It emphasizes the application of concepts, theories, principles, and research findings needed to provide care for common psychiatric conditions encountered in the primary care setting. The focus of this course is identification of psychiatric conditions as well as treatment strategies and the recognition of situations where a referral is needed. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 759</td>
<td>Diagnosis and Management of Geriatric Health in Primary Care</td>
<td>2</td>
<td></td>
<td>NURS 742 and NURS 754</td>
<td>Description: This course provides an in-depth analysis of primary care of the older adult. Emphasis is on assessment, interpretations and management of age-related functional and cognitive changes. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative inter-professional healthcare team. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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<tr>
<td>NURS 760</td>
<td>Gerontology Pharmacology</td>
<td>1</td>
<td></td>
<td>NURS 742</td>
<td>Description: This course builds principles and content of advanced nursing pharmacology. It is designed to provide the adult gerontology nurse practitioner student with knowledge of pharmacokinetics, pharmacodynamics, and polypharmacy as related to the older adult. For class offerings for a specific term, refer to the Schedule of Classes (<a href="http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm">http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm</a>)</td>
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</tbody>
</table>
NURS 761. Pediatric & Adolescent Well Child Theory 2 Units
Prerequisite(s): NURS 740.
Description: This course is an introduction to advanced practice nursing. It provides a theoretical and practical base for the health care management of pediatric and adolescent clients. Emphasis is on the analysis and the implementation of the advanced practice nurses role in the identification, prevention, and management of common pediatric health concerns.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 762. Diagnosis & Management of Pediatrics in Primary Care 2 Units
Prerequisite(s): NURS 741.
Description: This course provides in depth analysis of primary care of the child. Emphasis is on differentiating signs and symptoms, formulating diagnoses, and management of acute and chronic conditions commonly encountered in primary care. The advanced practice nurses role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 763. Advanced Neonatal Physiology & Pathophysiology I 3 Units
Prerequisite(s): NURS 785.
Description: This course provides a foundation in the cellular processes upon which neonatal pathophysiology occurs. Synthesis of topics in human embryology is the foundation for understanding specific neonatal pathophysiologic processes. Common pathophysiologic neonatal disease and how they deviate from normal physiology are presented using a systems approach.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 764. Neonatal Diagnostic Reasoning I 1 Unit
Prerequisite(s): NURS 785.
Description: An advanced health assessment class emphasizing the processes and techniques of diagnostic reasoning with critically-ill neonates. Students will evaluate presenting clinical signs in the neonate requiring intensive care, determine the differential diagnosis, identify appropriate diagnostic tests and exams, and determine the appropriate diagnosis and treatment in neonates with a variety of problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 765. Advance Neonatal Physiology & Pathophysiology II 3 Units
Prerequisite(s): NURS 763.
Description: This course is the second of two courses that provides the student with didactic preparation in the concepts of advanced neonatal pathophysiology based upon normal neonatal physiology. Synthesis of topics in human embryology, genetics, and advanced neonatal pathophysiology and clinical management provides the foundation for understanding complex neonatal pathophysiologic processes. Complex pathophysiologic neonatal diseases and how they deviate from normal physiology are presented using a systems approach. Integrated into the course is the diagnostic reasoning needed to manage the care of a critically ill neonate. Topics addressed in this course include those recommended to prepare the student for national certification as a neonatal nurse practitioner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 766. Neonatal Diagnostic Reasoning II 1 Unit
Prerequisite(s): NURS 765.
Description: An advanced health assessment class emphasizing the processes and techniques of diagnostic reasoning with critically-ill neonates with diagnoses of advanced complexity and builds upon skills learned and applied Neonatal DDX I. Students will evaluate presenting clinical signs in the neonate requiring intensive care, determine the differential diagnosis, identify appropriate diagnostic tests and exams, and determine the appropriate diagnosis and treatment in neonates with a variety of problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 767. Neonatal Residency I 3 Units
Prerequisite(s): NURS 765.
Description: The purpose of the NNP Residency is to provide neonatal nurse practitioner students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows development of increased skill and independence in decision-making as a NNP. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 768. Neonatal Residency II 3 Units
Prerequisite(s): NURS 767.
Description: This is the second clinical residency course for the NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows them to advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 769. Neonatal Residency III 3 Units
Prerequisite(s): NURS 768.
Description: This is the third and final clinical residency course for NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to apply the knowledge and skills acquired in previous residency semesters and coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows them to advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 770. Advanced Psych Assessment & Clinical Interview 2 Units
Prerequisite(s): NURS 742.
Description: The focus of this course is the use of clinical interviewing techniques and psychiatric assessment of determining the mental health status of clients throughout the lifespan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 771. Psychopathology 2 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course is a comprehensive study of essential developmental and psychopathology across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 772. Psychopharmacology 2 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course is a comprehensive study of essential psychopharmacology used across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, generic, and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 773. Management of Psychiatric/Mental Health Conditions: Foundation of Individual Psychotherapy 3 Units
Prerequisite(s): NURS 771 and NURS 772.
Description: This course will introduce the role and foundational concepts for effective practice of the psychiatric-mental health nurse practitioner (PMH-NP). The focus of the PMH-NP relates to the delivery of evidence-based care to persons with psychiatric-mental health concerns. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 774. Diagnosis and Management in Psych/Mental Health: Group Psychotherapy and Care of Special Populations 3 Units
Prerequisite(s): NURS 773.
Description: This course will expand on the role and foundational concepts for effective practice of the psychiatric-mental health nurse practitioner (PMH-NP). The role of the PMH-NP in the delivery of evidence-based care to persons with psychiatric-mental health concerns will be examined. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 775. Diagnosis and Management of Psychiatric/Mental Health Conditions 3 Units
Prerequisite(s): NURS 774.
Description: This course will expand on the role and foundational concepts for effective practice of the psychiatric-mental health nurse practitioner (PMH-NP). The role of the PMH-NP will be examined in multicultural contexts. The focus of the PMH-NP relates to the delivery of evidence-based care to persons with psychiatric-mental health concerns. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 776. Neonatal Residency II 3 Units
Prerequisite(s): NURS 767.
Description: This is the second clinical residency course for the NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows them to advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 777. Neonatal Residency III 3 Units
Prerequisite(s): NURS 768.
Description: This is the third and final clinical residency course for NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to apply the knowledge and skills acquired in previous residency semesters and coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows them to advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 778. Procedures & Diagnostics for Acute Care 2 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course introduces the advanced psychomotor and diagnostic skills used to procedures that are commonly performed in the acute care setting. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute, complex and/or critical health problems of critically ill adolescents and adults. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 781. Diagnosis & Management in Acute Care II 3 Units
Prerequisite(s): NURS 779.
Description: This course provides an in-depth analysis of adult-gerontology care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute complex health problems. The advanced practice nurses role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 783. Diagnosis & Management in Acute Care III 2 Units
Prerequisite(s): NURS 781.
Description: This course provides an in-depth analysis of adult-gerontology acute care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute, complex, and/or critical health problems of critically ill adolescents and adults. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 784. Advanced Neonatal Pharmacology 3 Units
Prerequisite(s): NURS 741.
Description: This course provides a basis for understanding the pharmacokinetics and actions of specific groups of drugs commonly used in neonatal advanced nursing practice. Emphasis is placed on pharmacological action of drugs, side effects, appropriate dosing, monitoring, drug interactions and guidelines for use of drugs. Legal and ethical considerations of prescriptive practice are also addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 785. Advanced Neonatal Assessment 3 Units
Prerequisite(s): NURS 741.
Description: This course is an in-depth study of neonatal assessment techniques and normal versus abnormal variations seen in the newborn. Emphasis is on the clinical presentation of the newborn utilizing concepts from developmental anatomy and physiology as well as intrauterine factors that may alter findings. Students will learn advanced physical examination, gestational age, and neurobehavioral assessment skills specific to the neonate.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 786. Human Embryology and Genetics 3 Units
Description: This course provides the student with basic knowledge of the principles of human embryology and genetics. The genetic and embryological basis for congenital malformations in the high risk neonate will be discussed. Associated fetal physiologic principles will be correlated with embryological development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 787. Clinical Practicum I 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): NURS 740 and NURS 741.
Description: The purpose of this course is to provide clinical experience in comprehensive patient assessment, diagnosis and management of common health problems among select patient populations. Students will begin practicing the role of an APRN under preceptor supervision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 788. Clinical Practicum II 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): NURS 787.
Description: The purpose of this course is to provide advanced clinical experience in comprehensive patient assessment, diagnosis and management of common and complex problems among select patient populations. Students will strengthen and enhance their advanced practice skills with preceptor supervision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 789. Clinical Practicum III 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): NURS 787.
Description: This course is an opportunity for Doctoral Students to focus study in an area of interest germane to their dissertation work. Students will strengthen and enhance their advanced practice skills with preceptor supervision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 790. Special Topics: Research, Theory, Policy, Leadership or Educational Concepts for doctoral students 1-6 Units
Prerequisite(s): Admitted to the Doctoral Program; Completion of all coursework at the master's degree level.
Description: This clinical experience focuses on synthesis of theoretical, scientific, and clinical knowledge as well as practice-based skills in the diagnosis and management of existing and potential health problems based on appropriate standards of care. Emphasis will be placed on the collaborative and leadership roles of the advanced practice nurse in health care delivery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 796. Independent Study for Doctoral Students 1-9 Units
Prerequisite(s): Admitted to the Doctoral Program; Completion of all coursework at the master's degree level.
Description: Allows doctoral students to work with targeted faculty on a directed project with mutually identified objectives.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Oral Biology (OBIO)

**OBIO 602. Bone and Calcium Physiology**  
3 Units  
Term Typically Offered: Not Offered  
Prerequisite(s): Consent of instructor.  
Description: Contemporary concepts and literature in bone and calcium physiology. Lectures and student-led discussions. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 611. Craniofacial Osteology**  
1-3 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): OPGD 801 and OPGD 805 or equivalents.  
Description: Explores the hard tissue interrelationships of the craniofacial complex. Includes the mechanical properties, origins and maturation of facial bones. Complements the cephalometric course; designed to link clinical applications to anatomic locations. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 612. Craniomaxillofacial Diagnostic Imaging**  
2-4 Units  
Term Typically Offered: Spring Only  
Prerequisite(s): Consent of instructor.  
Description: For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 613. The Diagnosis & Treatment of Temporomandibular Disorders**  
1 Unit  
Term Typically Offered: Fall Only  
Prerequisite(s): OPGD 801 and OPGD 805 or equivalents.  
Description: Will present the basic concepts of Temporomandibular Disorders. Emphasis is on Etiology, Examination, Recognition, Diagnosis and Treatment of Facial Pain/TMJ Disorders and Occlusal Abnormalities. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 614. Advanced Oral Diagnosis and Oral Medicine**  
1 Unit  
Term Typically Offered: Not Offered  
Prerequisite(s): Admission to the MS Oral Biology program, a DDS or DMD degree or its foreign equivalent, or consent of the instructor.  
Description: Will present advanced topics on diagnostic methods and therapy relative to oral-maxillofacial and systematic diseases, and the inter-relationships between oral and systemic disease. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 615. Advanced Clinical Pharmacology**  
1 Unit  
Grading Basis: Pass/Fail  
Term Typically Offered: Spring Only  
Prerequisite(s): One of the following: Admission to the MS Oral Biology program, a DDS or DMD degree or its foreign equivalent; consent of the instructor.  
Description: To present advanced topics in clinical pharmacology with specific emphasis on antibiotics, analgesics, local anesthetics, anti-inflammatory and antiviral drugs. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 616. Overview of Medical Genetics in Oro-Facial Disease**  
1.5 Units  
Term Typically Offered: Not Offered  
Prerequisite(s): Consent of instructor.  
Description: The student will study the medical genetic influence on development and growth as well as dysmorphology and disease of the human body. Risk factors, probabilities and clinical outcomes are emphasized. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 617. Advanced Oral Pathology**  
1 Unit  
Term Typically Offered: Fall Only  
Prerequisite(s): Consent of instructor.  
Description: Introduction to the clinical and radiographic manifestations of diseases of the oral cavity and para-oral region. Also included will be the clinical differential diagnosis oral lesions and the etiology and histology of common oral lesions. Clinical evaluation and management of oral lesions will be discussed as well. For class offerings for a specific term, refer to the Schedule of Classes.  

**OBIO 622. Multiple-Disciplinary Seminars**  
1 Unit  
Term Typically Offered: Pass/Fail  
Prerequisite(s): Enrollment in the MS in Dentistry, GPR, OMFS programs, or MD in Oral Biology programs.  
Description: Case-based multi-disciplinary seminar where topics of clinical interest are presented by postgraduate students/residents in the Master of Science in Dentistry program, as well as OMFS and GPR residents. Discussion is facilitated by faculty. The course is continuous for both the Fall and Spring semesters and students must enroll in both semesters to receive credit. The course provides interdisciplinary discussion of diagnosis and treatment of oral pathologies. For class offerings for a specific term, refer to the Schedule of Classes.
OBIO 623. Advanced Implantology  1 Unit
Grading Basis: Pass/Fail
Term Typically Offered: Not Offered
Prerequisite(s): Enrollment in the MS in Dentistry program or MS in Oral Biology program.
Description: Seminar review of the fundamental concepts of implantology including both surgical and restorative phases, the biologic basis of implantology, the advantages and disadvantages of different implant systems, and practice sessions placing implants and complete preparation for the clinical use of implants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OBIO 624. Advanced Maxillofacial Imaging Practicum  0.5-1.5 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall Only
Prerequisite(s): Must be enrolled in dental advanced education program.
Description: The practicum provides individualized in-depth discipline specific instructions and clinical training to postgraduate students in advanced education programs so that they are competent in the practical aspects associated with prescribing, performing, accessing and interpreting CBCT imaging in an enterprise PACS environment. The student will develop skills in the use of software for discipline specific applications and familiarity and experience with 3-D printing in the course of providing care for their patients.
Note: Instruction and credit hours vary by specific advanced education program and course section.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OBIO 631. General Pathology  5 Units
Term Typically Offered: Not Offered
Description: General principles and concepts of systemic disease taught in a lecture seminar and laboratory format. The etiology, pathogenesis, sequelae, and prognosis of specific diseases are discussed. In addition, recognizable signs and symptoms of general and specific diseases and treatment for these diseases are presented. 3 hrs. lect., 3 hrs. lab.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Oral Immunology and Infectious Diseases (OID)

OID 501. Biomedical Data Analysis: Experimental Design and Statistics  3 Units
Prerequisite(s): Acceptance to a graduate program or permission of course director.
Description: OID 501 is designed for graduate and professional students in health sciences who require a working knowledge of the experimental design and statistical methods most often utilized in the biomedical sciences. The focus is upon the initial evaluation of scientific literature, the formulation of research protocols, and the interpretation of data. Special attention is given to those areas of data interpretation most common in the health sciences. Fall semesters.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OID 600. Concepts in Oral Immunology  2 Units
Term Typically Offered: Spring Only
Prerequisite(s): Students should have previously taken a basic immunology course or consent of instructor.
Description: To provide an in-depth analysis of how the host’s immune system within the oral cavity is involved in mediating host immunity against periodontal pathogens, as well as defining the immunological events underlying the initiation and progression of periodontal diseases. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OID 601. Introduction to Oral Biology Research  2 Units
Prerequisite(s): Acceptance to an Oral Biology degree program or consent of course director.
Description: OID 601 is an introduction to modern research methodology in oral biology. Designed to acquaint the student with a broad spectrum of experimental techniques and concepts which will help prepare for successful design of a research project. Major emphasis is placed on research design, research methodology, critical evaluation of basic research literature, and scientific writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OID 604. Oral Microbiology  3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Acceptance to an Oral Biology degree program or consent of course director.
Description: An in-depth study of the microbiota and host defense mechanisms with an emphasis on the ecology, nutrition, and biochemistry of the indigenous bacteria.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OID 605. Oral Health Seminars  0.5 Units
Grading Basis: Pass/Fail
Prerequisite(s): Acceptance to the MSOB program or consent of course director.
Description: OID 605 comprises biomedical research seminars describing basic and clinical research by internal and external faculty and postdoctoral research associates. Students will learn about the breadth of faculty biomedical research, providing context for their own research. The seminars are at least monthly, and the course is continuous through the fall and spring semesters. OID 605 is a required course for most students in the Masters in Oral Biology (MSOB) program. Students must enroll in both Fall and Spring semesters to receive full credit.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
OIID 606. Oral Biology Communication 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): OIID 601.
Description: OIID 606 is provided to MS and PhD students, and to dental residents. The goal of this course is for students to develop their research plan and to become familiar with presenting and defending research findings in a scientific setting. The students will: prepare a scientific abstract in the style of the Journal of the American Dental Association; give a 15 minute seminar describing their research project; answer questions on their talk; and contribute to discussions and feedback on the research of classmates.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OIID 610. Advanced Topics in Oral Biology 1-4 Units
Prerequisite(s): OIID 601 or OBIO 601; consent of Graduate Program Director.
Description: This course allows graduate credit to be obtained for guided readings or other specialized studies needed to enhance the student's understanding of their thesis research project. This course can be used for a student to read and discuss a series of advanced publications with a faculty guide other than their primary mentor, in order to build expertise in a specialized area relevant to their research project. Guided readings with a Thesis Committee faculty (other than the mentor) can be particularly important for an interdisciplinary project. This course is intended for specialized in depth studies beyond what is appropriate in a classroom setting. The faculty and student must obtain approval from the Graduate Program Director for this course prior to registering. The faculty guide should send an email to the Graduate Director at the beginning of the semester describing the goals and expected effort and number of credits. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OIID 619. Graduate Research 1-8 Units
Grading Basis: Pass/Fail
Prerequisite(s): Acceptance to a graduate degree program or consent of course director.
Description: OIID 619 allows graduate credit to be obtained for performing biomedical research. The student will perform research under the supervision of a primary mentor who is specifically named in the Thesis Committee Form that is required to be completed by all students during their first semester and signed by student, committee members, and the Program Director. Research hours and duties are as defined by the mentor in conjunction with the student.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OIID 620. Thesis 1-8 Units
Grading Basis: Pass/Fail
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Acceptance to an Oral Biology degree program or consent of course director.
Description: This course allows graduate credit to be obtained for all aspects of writing the students thesis or writing a research article suitable for publication.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OIID 800. Correlated Sciences 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Acceptance to the DMD program.
Description: OIID 800 is provided in the first semester of the DMD program. The diverse range of didactic lectures in OIID 800 is intended to introduce the concept of the need to maintain a holistic scientific view of the body when providing dental care. The course will introduce anatomical, historical, immunological, biochemical, physiological, microbiological, pharmacological and pathological research concepts that will ultimately, lead to improvements in the examination, evaluation, diagnosis and/or treatment of dental patients. OIID 800 will introduce the wide range of clinical, basic and transnational research that currently takes place in the School of Dentistry and how you can become actively involved.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

OIID 804. DMD Research 2-8 Units
Grading Basis: Pass/Fail
Prerequisite(s): Acceptance to the DMD program and to a research program.
Description: OIID 804 gives credit to DMD students participating in a research program such as the ULSD Summer Research Program. Students should apply for a Summer Research Program during the spring semester, participate in research during the summer, and present at Research Louisville in the Fall semester. Applications are through the ULSD Associate Dean for Research + Enterprise. Students receive 2 credits for each semester doing research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Pan-African Studies (PAS)

PAS 500. Cooperative Internship in Pan-African Studies 3-6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): 12 hours PAS above introductory level.
Description: Assignment with a public agency or organization. Written report and periodic consultation with a professor may be required.
Note: May be repeated for credit but only 3 hours apply towards major or minor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 505. The Black Atlantic 3 Units
Prerequisite(s): 12 hours PAS credit or consent of instructor.
Description: Examination of the intercultural and transnational linkage of Africans in England, North and South America, the Caribbean and the African continent. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 506. Service Learning 3 Units
Description: Placement of students in nonprofit organizations in the Louisville metropolitan region to provide research or programmatic assistance to local community groups. Written reports and frequent consultation with a professor may be required.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 508. Independent Study 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Overall GPA of 3.0, a GPA of 3.5 in the department and at least 18 semester hours credit in the department.
Description: Independent study on a topic related to the African Diaspora. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 509. Advanced Contemporary Trends in African-American Art 3 Units
Prerequisite(s): 300-level Art History course.
Description: Survey of contemporary African-American art since the 1960s into current trends today. Examination of contemporary paintings, sculpture, fabric art, folk art, public art, and installation art. (Humanities)
Note: Undergraduate credit may not be earned for this course and PAS 308 or ARTH 349.
Note: Cross-listed with ARTH 549.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 510. Advanced Topics in Afro-American and African Studies 3 Units
Description: Advanced study of a particular topic, issue or area in African-American culture or history, to be announced in Schedule of Courses.
Note: May be repeated as topics vary, but no more than six hours will be accepted in the major.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 513. U.S. Social Justice Movements 3 Units
Prerequisite(s): Junior-level standing.
Description: Course will begin with abolitionism, then concentrate on social justice upsurges of the 20th century, with emphasis on women in the civil rights and Black liberation movements. (Social Sciences)
Note: Cross-listed with WGST 513, HIST 513, and SCHG 513.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 514. History of Pan-African Social Thought 3 Units
Prerequisite(s): Consent of instructor.
Description: Contributions of African and African-American social theorists from Marcus Garvey to Cornell West; role of ideology in relations of domination and oppression. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 520. The Black Family - WR 3 Units
Prerequisite(s): Senior standing.
Description: Nature and function of African-American familial systems from the slave era to the present. Emphasis on impact of public policy on socioeconomic and political status of Black family structures. (Social Sciences)
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 529. Teacher Institute on African-American Issues 3 Units
Description: An introduction to Pan-African Studies focusing on multicultural educational strategies for public school educators. (Social Sciences)
Note: Cross-listed with EDAP 590.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 531. Survey of African-American History and Culture for Teachers 3 Units
Description: An intensive survey of the history and culture of African Americans for teachers. (Social Sciences)
Note: Cross-listed with EDAP 592.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 532. Slave Trade and Slavery in the African World 3 Units
Prerequisite(s): Senior or graduate standing.
Description: An in-depth examination of the evolution and characteristics in the western world, the mechanics and organization of the African slave trade, the nature and types of slave societies established in Europe and the Americas, and the impact of slave trade in Africa. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 533. The History and Popular Culture of the African Diaspora 3 Units
Prerequisite(s): Senior or graduate standing.
Description: An intensive, comparative examination of selected topics linking the history and culture of persons of African ancestry in the United States, the Caribbean region, Latin America and Africa. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 535. History of African Americans in Kentucky 3 Units
Prerequisite(s): Senior standing or faculty consent.
Description: The history of African Americans in Kentucky from the settlement of the trans-Appalachian region to the present. Special attention to the history of African Americans in Louisville and Jefferson County. The use of primary, secondary, and oral historical sources will be emphasized. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 540. Pedagogy of African Studies 3 Units
Description: Designed for teachers preparing to introduce African Studies materials to primary and secondary school students. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 541. Cultural Heritage, Tourism, and Globalization 3 Units
Description: This course is designed to familiarize you with the anthropological literature on the origins, nature, and character of tourism. It will analyze the way cultural heritage sites become contested spaces, representative of memory, nationhood, history, and culture with particular emphasis on Jewish history and culture in Europe and African Americans in the U.S. (Social Sciences)
Note: Cross-listed with ANTH 532.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 542. Black Women's Voices - WR 3 Units
Prerequisite(s): At least 6 (six) credit hours in SS or HU or consent from faculty.
Description: Global synopsis of black women's studies and social thoughts. Highlights roadblocks and bridges experienced. Captures race, gender, class and spatial dimensions. (Social Sciences)
Note: Cross-listed with WGST 543.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both PAS 542/WGST 543 and PAS 643/WGST 643.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 546. African Languages in the Diaspora 3 Units
Prerequisite(s): junior standing.
Description: Course investigates the intersections of linguistic behavior from the perspective of the global African Diaspora. Explores the many manifestations of African and other linguistic influences as seen through an analysis of various media. (Humanities)
Note: Credit may not be earned for this course and PAS 346.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 547. Language, Race, Class and Gender 3 Units
Prerequisite(s): Junior standing.
Description: Course investigates the intersections of linguistic behavior with questions of race, class and gender. Students will gain an understanding of the multiple characteristics of communication. (Humanities)
Note: Credit may not be earned for this course and WGST 547.
Note: Cross-listed with WGST 547.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 548. Black Museums and Cultural Heritage 3 Units
Prerequisite(s): 6 credit hours completed in Anthropology or Pan African Studies.
Description: Examination of historical and cultural dimensions of museums and heritage sites in Africa and Africa Diaspora. Representation of Africana ethnic groups depicted in museum setting and public culture. (Social Sciences)
Note: Graduate credit may not be earned for both PAS 548 and PAS 648.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 550. African Popular Culture 3 Units
Description: Examination of the popular arts of Africa, focusing on the variety of aesthetic forms, performance styles, and the sociocultural and political contexts in which they are found. (Humanities)

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 551. Studies in African-American Literature 3 Units
Prerequisite(s): ENGL 102 or ENGL 105 and junior standing.
Description: In-depth study of selected movements, topics, or groupings of African-American writers. (Humanities)
Note: Cross-listed with ENGL 550.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 556. Race and Gender in Psychological Research 3 Units
Description: Critical review of psychology with respect to issues of race and gender. Examines theory and research paradigms, modern, postmodern and Afrocentric methodologies. (Social Sciences)
Note: Cross-listed with PSYC 566.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 566. Post-Colonial Voices: Writing "Experience" in African Literature - WR 3 Units
Prerequisite(s): ENGL 102, or ENGL 105, or junior standing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 575. Genre Studies in African-American Literature 3 Units
Prerequisite(s): ENGL 102 or ENGL 105, and junior standing.
Description: In-depth study of a selected genre of African-American literature. (Humanities)
Note: Cross-listed with ENGL 575.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 577. The Harlem Renaissance 3 Units
Prerequisite(s): ENGL 102 or ENGL 105; and Junior standing.
Description: In-depth study of the literature of the Harlem Renaissance in relation to other literary and artistic productions of the period and to cultural and historical contexts. (Humanities)
Note: Cross-listed with ENGL 577.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 578. The Music of the Black Church 3 Units
Term Typically Offered: Fall, Spring
Description: This course is designed for the upper division or graduate student in music or Pan-African studies and explores the historical and musical development of African-American sacred music from slavery to the present; from Spirituals to traditional and contemporary Gospel music. Special emphasis is given to the impact that this music has had on African-American culture in the United States, which represents a synthesis of African and European cultures into a unique hybrid with its own tradition of development.
Note: Cross-listed with MUS 578.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 581. Pan-African Art: Form and Content 3 Units
Prerequisite(s): Consent of instructor.
Description: Similarities and differences in African-American folk art, Caribbean folk art and traditional African art. (Humanities)
Note: Cross-listed with ARTH 544.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 586. Field Research 3-6 Units
Prerequisite(s): 12 hours PAS credit or consent of instructor.
Description: On-site field study of a particular aspect of society in the African Diaspora.
Note: Maximum of 6 credit hours, depending upon project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 590. Studies in African History - WR 3 Units
Prerequisite(s): Junior standing or faculty consent.
Description: Intensive study of a particular topic chosen by the instructor, for example, slavery and the slave trade, traditional kingdoms. (Social Sciences)
Note: Cross-listed with HIST 590.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Nine prior hours of HIST or PAS is recommended.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 601. Pan-African Research 3 Units
Prerequisite(s): Admission to graduate school.
Description: Students learn the tools necessary to conduct research and challenge Eurocentric biases in traditional modes of inquiry. It asks: are there distinctive methods that are appropriate in studying people and issues from the African Diaspora and other Non-Western Societies? For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 602. Theories And Issues in Pan-African Studies 3 Units
Prerequisite(s): Admission to graduate school.
Description: PAS 602 explores the historical development, major theoretical perspectives, salient contemporary issues, long-term research agenda and future trends of the multi-disciplinary field of Pan-African Studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 604. Thesis 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Completion of 24 hours toward MA in Pan-African Studies.
Description: Thesis research for the Masters of Arts in Pan-African Studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 605. Special Topics in Pan-African Studies 3 Units
Prerequisite(s): Consent of instructor.
Description: Examination of a specific social, cultural or historical theme related to persons of African ancestry, past or present, in one or more regions of the world.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 606. Independent Study 1-3 Units
Prerequisite(s): Graduate standing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 613. Seminar on Black Political Economy 3 Units
Prerequisite(s): Graduate standing.
Description: Seminar focusing on the economic status and role of African Americans in the US with emphasis on the Southern United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 614. History of Pan-African Social Thought 3 Units
Prerequisite(s): Graduate standing.
Description: Writings and critiques of the major African descended thinkers of the 20th Century. Special emphasis on the ideas of Booker T. Washington, W.E.B. DuBois, Marcus Garvey, Martin Luther King, Jr., and Malcolm X.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 615. Theories of Race and Racism 3 Units
Prerequisite(s): Students must be enrolled in a graduate program.
Description: This course provides an intensive examination of the evolution, meaning, and significance of race and racism as historical and social constructs. Prominent theories of race and racism are examined. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 616. African-American Philosophy 3 Units
Description: Analysis of works and theories of major recent and contemporary African-American philosophies within the themes of Pan-African debates.
Note: Cross-listed with PHIL 616.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 617. African-American Public History 3 Units
Description: Examination of the key issues, primary and secondary sources, and research methods for studying the African-American experience. Exploration of the challenges and strategies related to interpreting and preserving the African-American experience at historical sites, in museums and in other public settings. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 618. Museums and Culture: Exhibiting African Americans and Others 3 Units
Prerequisite(s): Restricted to graduate students.
Description: The ways in which the history and culture of African Americans and others have been depicted in the museums, expositions and "world fairs" of the United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 619. Advanced Seminar in African-American Studies 3 Units
Prerequisite(s): Graduate standing.
Description: An intensive examination of selected topics in African-American history and culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 620. Black Literature & Popular Culture 3 Units
Prerequisite(s): Restricted to graduate students.
Description: Explores the relationship between the black literacy and popular arts in Africa, the United States and the Caribbean taking into consideration a variety of aesthetic forms, performance styles, struggles, conflicts and pleasures that matter to the majority of contemporary black people in their richly-diverse lived experiences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 621. Religions of the African Diaspora 3 Units
Description: Exploration of religious practices of the African World: Yoruba, Santeria, Vodun/Voodoo, Rastafarianism, and Gullah with an emphasis on their African and syncretic natures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 622. Theories of the Pan-African Diaspora 3 Units
Prerequisite(s): PAS 602 and PAS 614; special permission is required for any Social Sciences prerequisite waivers.
Description: The course gives students a foundation on which to build their intellectual base, challenge the social construction of knowledge, and provide an epistemological stance for Black Studies. The course also highlights the role of human agency in research and scholarship as well as in political, social, and cultural movements.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 623. Qualitative Research Strategies and Pan-African Research 3 Units
Prerequisite(s): PAS 601.
Description: Introduction to the process elements, the tools and the analytical skills required to collect and analyze qualitative data. Approaches qualitative research designs and various qualitative research methodologies and modes of inquiry. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 624. Quantitative Research Strategies and Pan-African Research 3 Units
Prerequisite(s): PAS 601.
Description: Principles of quantitative methodology. Specifically, students learn how to craft a research question, identify an appropriate sample, conduct a quantitative analysis, and interpret the results. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 625. African Americans in Contemporary American Society 3 Units
Description: An intensive, multi-disciplinary examination of the status of African Americans in the Post-Civil Rights Era (since 1970). Focus specifically on the demography, politics, social-cultural, educational and economic realities of contemporary African Americans.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 626. Black Heritage Preservation 3 Units
Description: An introduction to the interpretive, legal, social and political aspects of historical preservation with a focus on the Black experience, preservation laws, and the power of public memory. Introduction to local, state, and national agencies responsible for site designation, oversight and protection of historic sites and legacies, as well as the research and documentation necessary to obtain historical site designations. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 627. Underground Railroad in the Diaspora 3 Units
Description: Applied research on the people, events, causes, and methods employed in creating, sustaining, and operating a national and international Underground Railroad movement. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 628. African-American Education 3 Units
Prerequisite(s): Must be enrolled in a graduate program.
Description: The purpose of this course is to immerse students in a critical discussion of the history and current debates around African-American education. It is the goal of this course to develop students’ understanding of the importance of education in the lives of all Americans, particularly African Americans, and the struggle for equality that continues today. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 630. The Life and Times of Malcolm X 3 Units
Prerequisite(s): Graduate standing.
Description: An examination of the career of Malcolm X that engages the intersections of his political thought and public advocacy with broader trends in the United States and world affairs including colonialism and decolonization, the U.S. Civil Rights Movement, and the Black Arts and Black Power movements. The course critically examines his ideas about culture, history, and identity, and analyzes the use to which the figure of Malcolm X is put in the United States; popular culture and historical discourses. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 639. Public History in African Diaspora 3 Units
Description: Key issues, primary and secondary sources, and research methods for studying the experiences of persons of African ancestry in the Caribbean, Europe, Latin America, and Brazil. Examination of the challenges and strategies related to interpreting and preserving the Diasporic experience at historic sites, in museums and other public settings. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 643. Black Women's Voices 3 Units
Prerequisite(s): Graduate standing.
Description: Global synopsis of black women's studies and social thoughts. Highlights roadblocks and bridges experienced. Captures race, gender, class and spatial dimensions.
Note: Cross-listed with WGST 643.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 645. Southern Women: Black and White 3 Units
Description: Course focuses on questions of identity of southern women, black and white by contrasting stereotypes and ideals with realities for these women in the slave, Jim Crow, and modern south.
Note: Cross-listed with WGST 645.
Note: Credit may not be earned for this course and PAS 545 or WGST 545.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 648. Black Museums and Cultural Heritage 3 Units
Description: Examination of historical and cultural dimensions of museums and heritage sites in Africa and the African Diaspora. Representation of Africana ethnic groups depicted in museum setting and public culture. (Social Sciences)
Note: Graduate credit may not be earned for both PAS 548 & PAS 648.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 649. African Americans in Louisville, Kentucky 3 Units
Description: In-depth examination of the history of African Americans in Louisville, Kentucky from the settlement of trans-Appalachian west to present. Through the use of primary, secondary and oral historical sources, the course will focus on the social, cultural, political and economic dimensions of African-American life in Kentucky's largest metropolitan area. (Social Sciences)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 650. Seminar on Black Culture: Herskovits 3 Units
Description: Examination of social science literature surrounding the origins, nature and function of African-American culture and its evolution over more than a hundred-year period. Ethnographic and theoretical perspectives will be examined in concert with government policies, funding agencies and scholars who acted as research “gatekeepers”, as well as the historical counters during which these theories were developed. (Social Science)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 657. African Philosophy 3 Units
Prerequisite(s): Graduate standing.
Description: This course gives students a general descriptive and analytical introduction to the ideas and themes in African philosophy through careful readings of the texts which address a cluster of topics.
Note: Cross-listed with PHIL 657.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PAS 664. Approaching African-American Theatre 3 Units
Description: Theoretical approaches and practical methods of performing, designing, staging and teaching theatre, literature, and art that spring from an Afrocentric perspective. Designed to prepare students to integrate African-American topics into their teaching and to collaborate successfully as artists.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PAS 686. Field Study 3-6 Units
The course provides an opportunity for students to gain practical experience in a field setting. Prerequisite(s): Admission to graduate school.

PAS 701. Doctoral Exam Preparation 3-6 Units
This course is designed to prepare students for comprehensive examinations. Grading Basis: Pass/Fail
Prerequisite(s): Permission of the department’s graduate studies director.
Description: Preparation for comprehensive and special topics examinations. For class offerings for a specific term, refer to the Schedule of Classes.

PAS 702. Dissertation Research 2-9 Units
Grading Basis: Pass/Fail
Prerequisite(s): Permission of the department’s graduate studies director.
Description: Conduct of research for dissertation. Prerequisite(s): Graduate standing.

PAS 703. Pro-Seminar, Pan-African Studies 0 Units
Grading Basis: Pass/Fail
Prerequisite(s): Permission of department’s graduate studies director.
Description: Conduct of professional seminars and workshops. For class offerings for a specific term, refer to the Schedule of Classes.

Peace, Justice and Conflict Transformation (PEAC)

PEAC 545. Basic Mediation & Conflict Transformation 3 Units
Prerequisite(s): Graduate standing.
Description: Basic skills include understanding the place and role of mediation as a conflict resolution tool; applying techniques for constructive negotiation; understanding sources of conflict and recognizing conflict management styles; gaining practical experience in conflict resolution techniques and skill building; understanding stages of mediation; acquiring listening and communication skills; understanding directive, facilitative, and transformative styles of mediation. For class offerings for a specific term, refer to the Schedule of Classes.

PEAC 575. Independent Study in Peace, Justice & Conflict Transformation 1-5 Units
Prerequisite(s): Minimum GPA of 3.0, or at least 45 semester hours credit, and permission of PJCT Director.
Description: Independent study is available to selected undergraduates or graduate students with a specific topic to focus upon that fits within the broad sphere of Peace, Justice & Conflict Transformation. Students will be supervised by either the director of the program or another individual appropriate for the selected topic. For class offerings for a specific term, refer to the Schedule of Classes.

Pharmacology and Toxicology (PHTX)

PHTX 606. Seminar 1 Unit
Description: The Fall semester of Pharmacology seminar is graded on a Pass-Fail basis and is designed to introduce first and second year graduate students to the formal organization of a scientific presentation. Prerequisite(s): Department majors only.

PHTX 616. Advanced Pharmacology 1-12 Units
Description: Work conducted outside the thesis area and with a preceptor other than the thesis director. By special arrangement. For class offerings for a specific term, refer to the Schedule of Classes.

PHTX 617. Laboratory Rotation Research 1 Unit
Description: The purpose of this course is to provide students in search of a laboratory in which to perform thesis/dissertation research the opportunity to become acquainted with the research of particular faculty and the techniques used in that faculty's laboratory. Students will approximately 10-15 hours per week conducting literature surveys and conducting experiments under the direction of graduate faculty mentor. They will function as a member of the laboratory for the duration of the rotation. Rotations are for one-half semester each. Students will do two rotations in a semester. Course may be retaken once. Prerequisite(s): Permission of the department’s graduate studies director.

PHTX 618. Topics in Pharmacology & Toxicology 1-12 Units
Prerequisite(s): Department majors only.
Description: Topics of current interest in Pharmacology and Toxicology. By special arrangement. For class offerings for a specific term, refer to the Schedule of Classes.

PHTX 606. Seminar 1 Unit
Description: The Fall semester of Pharmacology seminar is graded on a Pass-Fail basis and is designed to introduce first and second year graduate students to the formal organization of a scientific presentation. Prerequisite(s): Department majors only.

PHTX 616. Advanced Pharmacology 1-12 Units
Description: Work conducted outside the thesis area and with a preceptor other than the thesis director. By special arrangement. For class offerings for a specific term, refer to the Schedule of Classes.

PHTX 617. Laboratory Rotation Research 1 Unit
Description: The purpose of this course is to provide students in search of a laboratory in which to perform thesis/dissertation research the opportunity to become acquainted with the research of particular faculty and the techniques used in that faculty's laboratory. Students will approximately 10-15 hours per week conducting literature surveys and conducting experiments under the direction of graduate faculty mentor. They will function as a member of the laboratory for the duration of the rotation. Rotations are for one-half semester each. Students will do two rotations in a semester. Course may be retaken once. Prerequisite(s): Permission of the department’s graduate studies director.

PHTX 618. Topics in Pharmacology & Toxicology 1-12 Units
Prerequisite(s): Department majors only.
Description: Topics of current interest in Pharmacology and Toxicology. By special arrangement. For class offerings for a specific term, refer to the Schedule of Classes.

PHTX 619. Research 1-12 Units
For class offerings for a specific term, refer to the Schedule of Classes.

PHTX 625. Scientific Writing 2 Units
Description: This course is to give students hands-on experience with writing and critiquing scientific papers and proposals. The course will involve both didactic lectures and student presentations and workshops. Students will be graded on their class involvement, presentations, and homework assignments. No special restrictions or conditions are stipulated. For class offerings for a specific term, refer to the Schedule of Classes.
PHTX 631. Risk Assessment
1 Unit

Description: This one hour course will introduce students to the historical underpinnings of risk assessment, to methods, policies and procedures used by risk assessors in todays governmental bodies. At the conclusion of the course, students should understand how peer reviewed publications, especially those demonstrating close response, are used in the derivation of acceptable exposure limits. Emphasis will be placed on the estimation of acceptable exposure limits for non-carcinogenic effects of orally encountered chemicals.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 632. Analysis of Parametric & Nonparametric Data
2 Units

Description: An introduction to descriptive and inferential statistics including exploratory analysis, graphing, descriptive methods, estimation, confidence intervals, hypothesis testing, correlation, and regression. Students will be introduced to the theory and application of One-, two- and multi-group parametric and non-parametric methods. In addition, students will learn how to calculate the odds or risk of developing disease given an exposure using simple logistic regression analysis. Students will give an oral presentation that incorporates statistical principles learned to their individual graduate research projects.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 633. Career Opportunities in the Biomedical Sciences
1 Unit

Grading Basis: Pass/Fail

Description: The goal of the Career Opportunities course is to expose biomedical trainees to a range of diverse career options so that they can make confident and informed decisions about the way that they will move their career. Students will have the opportunity to hear from and to interact with professionals that hold positions in non-academic biomedical or biomedically related career fields. Students will complete an Individual Development Plan and learn how to compose a curriculum vita and a resume.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 641. Pharmacology I
3 Units

Prerequisite(s): First year Pharmacology graduate student or permission of course director.

Description: This course will provide a foundation of the general principles of pharmacology upon which the students can subsequently build their knowledge in pharmacology. The course will progress through Goodman & Gilman's The Pharmacological Basis of Therapeutics chapter by chapter to introduce these fundamental areas and extend into neuropharmacology and pharmacological modulation of cardiovascular function.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 642. Pharmacology II
3 Units

Prerequisite(s): First year Pharmacology graduate student or permission of course director.

Description: This course will present the pharmacological principles modulating inflammation, Immunomodulation, Hematopoiesis, steroid action and endocrine systems, chemotherapy, and antibiotics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 634. Toxicology I
3 Units

Description: This course will present the General Principles of Toxicology, Neurotoxicants, and Organ Specific Toxicities.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 644. Toxicology II
3 Units

Term Typically Offered: Spring Only

Description: This course will present the Principles of Toxicity Testing, DNA Damage and Repair, and Environmental Toxicology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 652. Geriatric Pharmacology
1 Unit

Prerequisite(s): PHTX 395 or equivalent.

Description: This course will be offered to senior graduate students and nursing students wishing to expand their knowledge on the pharmacokinetics, drug metabolism, toxicities, distribution and drug dosages and interaction in the elderly.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 661. Molecular Mechanisms of Toxiology
3 Units

Prerequisite(s): BIOC 668.

Description: Molecular interactions of drugs and toxicants on cellular processes; including foreign compound metabolism, signal transduction, cell cycle, DNA repair/DNA replication are covered and put in context topics in molecular epidemiology.

Note: Cross-listed with BIOC 661.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHTX 667. Advanced Cell Biology
3 Units

Prerequisite(s): One quarter of graduate-level Biochemistry or consent of instructor.

Description: Advanced treatment of contemporary cell biology including membrane structure and function, cytoskeleton, signal transduction, regulation of cell cycle, apoptosis, and molecular mechanisms of cellular differentiation. Spring semester.

Note: Cross-listed with BIOC 667, ASNB 667, BIOL 667 and MBIO 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Philosophy (PHIL)

PHIL 501. Independent Study
1-3 Units

Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 505. Selected Topics  
Prerequisite(s): To be determined by instructor, in the light of the topic chosen for that semester.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 512. Advanced Symbolic Logic  
Prerequisite(s): PHIL 412 or consent of instructor.  
Description: Topics in the theory and application of modern logic.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 518. Feminist Philosophical Literature  
Prerequisite(s): Junior standing.  
Description: Examination of central works by feminist philosophers in such subdisciplines as ethics, political philosophy, and epistemology.  
Note: Cross-listed with WGST 560.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 519. Topics in Philosophy of Race and Racism  
Description: Focused examination of philosophical issues involved in interdisciplinary inquiries into the nature and functioning of race and racism.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 521. Ethical Theory - WR  
Prerequisite(s): One course in ethics or consent of instructor.  
Description: Recent developments in ethical theory, such as examinations of the status of moral facts; moral realism; impartiality and personal attachments; or moral agency.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 522. Virtue Ethics - WR  
Prerequisite(s): Two courses in Philosophy or consent of instructor.  
Description: Historical and contemporary approaches to ethics that emphasize virtue and character.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 523. Selected Topics in Applied Philosophy  
Prerequisite(s): One course in Philosophy or consent of instructor.  
Description: Intensive study of one or more philosophical problems of individual or collective behavior in institutions, professions, or community affairs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 524. Philosophies of Peace  
Description: History of peace movements; analysis of concepts of nonviolence, pacifism, positive and negative peace; approaches to conflict resolution and negotiation for global and local conflicts. Multi-disciplinary.  
Note: Credit may not be earned for both PHIL 524 and PHIL 624.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 528. Philosophy of Mind  
Prerequisite(s): Two semesters of philosophy or consent of instructor.  
Description: Philosophical analysis of contemporary theories about the mind.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 529. Philosophy of Emotions  
Prerequisite(s): One course in philosophy or consent of instructor.  
Description: Philosophical studies in the nature, interrelations, and moral and aesthetic value of specific emotions, such as pride, shame, guilt, regret, jealousy, envy, resentment, anger, hate, contempt, love, joy, happiness, contentment.  
Note: Cross-listed with PHIL 629.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 531. Aesthetics  
Description: An examination of philosophical theories of art, works of art, creative activity, and aesthetic experience, from Plato to the present.  
Note: Credit may not be earned for both PHIL 531 and PHIL 631.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 535. Political Philosophy  
Prerequisite(s): Two courses in philosophy and/or political science.  
Description: The main concepts of contemporary political thought: rights, law, power, ideology, legitimacy, democracy, tyranny, the state, and justice, with the focus on the topic of political action in both its individual and collective forms.  
Note: Credit may not be earned for both PHIL 535 and PHIL 635.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 536. Philosophy of Science  
Prerequisite(s): Two courses in philosophy and two courses in biology, chemistry, physics, or geology or consent of instructor.  
Description: Philosophical problems connected with scientific explanation, laws, theories, concepts, goals and methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 537. Philosophy of the Social Sciences 3 Units
Prerequisite(s): One philosophy course and one upper-level course in political science, psychology, sociology, anthropology, economics, or geography; or consent of instructor.
Description: Critical analysis of methodological, valuational, and metaphysical problems in the social sciences.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 553. Plato and Platonism 3 Units
Prerequisite(s): PHIL 301 or consent of instructor.
Description: Plato's dialogues, and the course of Platonist thought through Plotinus and the Christian philosophers, to modern times.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 554. Aristotle and Aristotelianism 3 Units
Prerequisite(s): PHIL 301 or consent of instructor.
Description: Aristotle's basic works and their influence on St. Thomas Aquinas and others in the Middle Ages.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 572. Phenomenology 3 Units
Prerequisite(s): PHIL 303 or consent of instructor.
Description: The development of the phenomenological method and its use from Husserl to the present.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 573. Existentialism 3 Units
Prerequisite(s): Two semesters of philosophy or consent of instructor.
Description: The thought of Kierkegaard, Nietzsche, Heidegger, Jaspers, Sartre, Marcel, and others, and its significance.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 575. Postmodernism 3 Units
Description: Multidisciplinary examination of challenges to ideals, norms, and beliefs of modernity, and identifying characteristics of postmodern thought, as they appear in various disciplines and in cultures.
Note: Credit may not be earned for both PHIL 575 and PHIL 675.

PHIL 580. Foundations of Bioethics 3 Units
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.
Description: Grounding in the major theories and methods of bioethical decision-making, including contemporary controversies about the role of theory, principles, cases, narrative, and virtues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 581. Current Controversies in Health Care Ethics 3 Units
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.
Description: Topics in health care ethics currently attracting the most attention in both professional and public discussions. A variety of viewpoints on these topics will be considered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 582. Gender, Race, and Culture in Health Care 3 Units
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.
Description: Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.
Note: Cross-listed with WGST 582.

PHIL 583. Health Care, Justice & Community 3 Units
Prerequisite(s): One Philosophy course at 300-level or above, or consent of instructor.
Description: Examines theories of justice and equality as they apply to issues in health care delivery, considers explanations for why disparities exist, and the practical ways that communities have addressed inequalities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 590. Fundamentals of Diversity 3 Units
Term Typically Offered: Occasionally Offered
Description: This course will provide an overview of the theory and practice of diversity. This course will be offered as a way to understand diversity, privilege, social identity, the role of the body in diversity, stereotypes, and the personal experiences of both those who are oppressed and those who are privileged. Students will also have a substantial opportunity to examine how these general themes impact their particular area of study, work, or interest.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 601. Independent Study 1-3 Units
Description: Directed study and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 602. Independent Study 1-3 Units
Description: Directed study and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 603. Philosophical Writing and Research 3 Units
Description: Development of analytical abilities in philosophical reading and writing; argument analysis and construction in various modes and styles.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 605. Special Topics 3 Units
Prerequisite(s): To be determined by instructor, in the light of the topic chosen for that semester.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 608. Aquinas 3 Units
Description: The works of Thomas Aquinas studied from historical and systematic viewpoints.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 610. Descartes 3 Units
Description: The works of Rene Descartes, studied from historical and systematic viewpoints.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 616. African-American Philosophy 3 Units
Description: Analysis of works and theories of major recent and contemporary African-American philosophers within the themes of Pan-African debates.

Note: Cross-listed with PAS 616.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 619. Topics in Philosophy of Race and Racism 3 Units
Description: Focused examination of philosophical issues involved in interdisciplinary inquiries into the nature and functioning of race and racism.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 620. Kant 3 Units
Description: The works of Immanuel Kant, studied from historical and systematic viewpoints.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 621. Ethical Theory 3 Units
Prerequisite(s): One course in ethics, or consent of instructor.

Description: Recent developments in ethical theory, such as examination of the status of moral facts; moral realism; impartiality and personal attachments; or moral agency.

Note: Cross-listed with BETH 521.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 623. Applied Philosophy 3 Units
Prerequisite(s): One course in Philosophy or consent of instructor.

Description: Intensive study of one or more philosophical problems of individual or collective behavior in institutions, professions, or community affairs.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 624. Philosophies of Peace 3 Units
Description: History of peace movements; analysis of concepts of nonviolence pacifism, positive and negative peace; approaches to conflict resolution and negotiation for global and local conflicts. Multi-disciplinary.

Note: Credit may not be earned for PHIL 524 and PHIL 624.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 625. Hegel 3 Units
Description: The works of Hegel, studied from historical and systematic viewpoints.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 629. Philosophy of Emotions 3 Units
Prerequisite(s): One course in philosophy or consent of instructor.

Description: Philosophical studies in the nature, interrelations, and moral and aesthetic value of specific emotions, such as pride, shame, guilt, regret, jealousy, envy, resentment, anger, hate, contempt, love, joy, happiness, contentment.

Note: Cross-listed with PHIL 529.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 631. Aesthetics 3 Units
Description: An examination of philosophical theories of art, works of art, creative activity, and aesthetic experience, from Plato to the present.

Note: Credit may not be earned for both PHIL 531 and PHIL 631.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 635. Political Philosophy 3 Units
Prerequisite(s): Two courses in philosophy and political science.

Description: The main concepts of contemporary political thought: rights, law, power, ideology, legitimacy, democracy, tyranny, the state, and justice, with the focus on the topic of political action in both its individual and collective forms.

Note: Credit cannot be earned for both PHIL 535 and PHIL 635.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 637. Philosophy of the Social Sciences 3 Units
Description: Critical analysis of methodological, valuational, and metaphysical problems in the social sciences.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 638. Critical Social Theory 3 Units
Description: A critical examination of interdisciplinary theories that seek to understand and explain social formations while at the same time uncovering ways that such formations can be unjust and irrational.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 640. Epistemology 3 Units
Description: Conceptual and historical background to analysis of knowledge claims; intensive study of theoretical approaches to knowledge, such as naturalized epistemology, socialized epistemology, feminist epistemology, postmodern critiques of normative conceptions of knowledge.
Note: Credit may not be earned for both PHIL 540 and PHIL 640.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 641. Recent Philosophy of Language 3 Units
Description: Intensive study of current theory and research in the philosophy of language.
Note: Cross-listed with LING 641.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 657. African Philosophy 3 Units
Prerequisite(s): Graduate standing.
Description: Descriptive and analytical introduction to the ideas and themes in African philosophy through careful readings of texts which address a cluster of topics.
Note: Cross-listed with PAS 657.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 660. Wittgenstein 3 Units
Description: The works of Wittgenstein, studied from historical and systematic viewpoints.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 671. Heidegger 3 Units
Description: The works of Martin Heidegger, studied from historical and systematic viewpoints.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 675. Postmodernism 3 Units
Description: A multi-disciplinary examination of challenges to ideals, norms, and beliefs of modernity, and identifying characteristics of postmodern thought, as they appear in various disciplines and in culture.
Note: Credit may not be earned for PHIL 575 and PHIL 675.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 680. Foundations of Bioethics 3 Units
Prerequisite(s): Restricted to graduate students.
Description: Grounding in the major theories and methods of bioethical decision-making, including contemporary controversies about the role of theory, principles, cases, narrative, and virtues.
Note: Cross-listed with BETH 680 and PHIL 580.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 681. Current Controversies in Health Care Ethics 3 Units
Prerequisite(s): Restricted to graduate students.
Description: Topics in health care ethics currently attracting the most attention in both professional and public discussions. A variety of viewpoints on these topics will be considered.
Note: Cross-listed with BETH 681, PHIL 581.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 682. Gender, Race, and Culture in Health Care 3 Units
Prerequisite(s): Restricted to graduate students.
Description: Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.
Note: Cross-listed with BETH 682/PHIL 582/WGST 682/WGST 582.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 683. Health Care, Justice, and Community 3 Units
Prerequisite(s): Restricted to graduate students.
Description: Examines theories of justice and equality as they apply to issues in health care delivery, considers explanations for why disparities exist, and explores practical ways that communities have addressed inequalities.
Note: Cross-listed with BETH 683 and PHIL 583.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 684. Clinical Ethics 3 Units
Prerequisite(s): Admission into the Bioethics MA program or consent of instructor.
Description: Application of ethical principles, virtues, and cases in the context of clinical care, with a practical approach toward ethics consultation and conflict resolution.
Note: Cross-listed with BETH 684.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHIL 685. Integrative Bioethics: Self and Other in Theory and Practice 3 Units

Grading Basis: Pass/Fail
Prerequisite(s): Admission to the Bioethics MA program or consent of instructor.
Description: Capstone seminar for Bioethics MA program in form of collaborative seminar. Students produce culminating project, whose development and final formal presentation they share with others in seminar format.
Note: Cross-listed with BETH 685.

PHIL 690. Fundamentals of Diversity 3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 691. Capstone in Diversity Literacy 3 Units

Prerequisite: Admission to the Diversity Literacy program or consent of instructor; PHIL 690.
Description: Students will build upon their prior coursework to conceive and develop a culminating project that advances diversity in each student's chosen field.

PHIL 695. Thesis Guidance 3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHIL 696. Thesis Guidance 3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Physics and Astronomy (PHYS)

PHYS 501. Independent Study 1-3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 502. Independent Study 1-3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 507. Solar System Astronomy 3 Units

Prerequisite(s): PHYS 298, PHYS 299, PHYS 300; MATH 205 and MATH 206.
Description: This is an advanced course in solar system astrophysics, and will cover orbital mechanics, the nature of light, astronomical instrumentation, solar physics, planetary atmospheres/geophysics, comets/asteroids, interplanetary dust and exo-planets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 520. Vibrations and Sound 3 Units

Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 298, PHYS 299 and MATH 206.
Description: Vibrating bodies, propagation of sound waves, physical acoustics, and ultrasonics.

PHYS 530. Thermal Physics 3 Units

Prerequisite(s): PHYS 299 and MATH 301.
Description: The laws of thermodynamics, thermodynamic reasoning, and elements of statistical mechanics.

PHYS 531. Introductory Statistical Physics 3 Units

Prerequisite(s): PHYS 530.
Description: Elementary probability theory applied to the understanding of properties of macroscopic matter in terms of their microscopic constituents. Kinetic theory of gases, transport phenomena. Equations of state derived from ensemble theory.

PHYS 542. Electromagnetic Radiation 3 Units

Term Typically Offered: Spring Only
Prerequisite(s): PHYS 541.
Description: Poisson's equation and LaPlace's Equation, propagation of electromagnetic fields with applications to optics and microwave physics.

PHYS 545. Advanced Optics 3 Units

Prerequisite(s): PHYS 355 and PHYS 542; or consent of instructor.
Description: Topics in optical physics including optical system design, lasers, and quantum optics.

PHYS 546. Advanced Optics Lab 1 Unit

Prerequisite(s): PHYS 355 or equivalent.
Description: Laboratory experiments illustrating fundamental optical phenomena, the interaction of light and matter, lasers, and quantum optics.
PHYS 547. Fundamentals of Lasers 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 355, and PHYS 542 or ECE 473; or consent of instructor.
Description: Topics to be discussed include interaction of light with matter, optical amplifiers, laser resonators, Gaussian and higher order optical beams, non-linear optics, and ultra-fast laser pulses.
Note: Cross-listed with ECE 540.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 555. Elementary Quantum Mechanics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 300, PHYS 350, and PHYS 460.
Description: Selected mathematical techniques and their applications to various fields of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 556. Quantum Theory of Matter 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 555.
Description: Spin and general angular momentum, perturbation theory, variational principle, applications, identical particles, and scattering.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 561. Mathematical Physics I 3 Units
Prerequisite(s): PHYS 350.
Description: Selected mathematical techniques and their applications to various fields of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 562. Mathematical Physics II 3 Units
Prerequisite(s): PHYS 350.
Description: Selected mathematical techniques and their applications to various fields of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 565. Computational Physics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 390, and PHYS 555 or PHYS 561 taken concurrently; familiarity with a programming language.
Description: Introduction to modern computational methods in physics with application to problems in different branches of physics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 570. Atomic and Molecular Physics 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 541 and PHYS 555; or consent of instructor.
Description: The structure of atoms and diatomic molecules, the production of coherent radiation and its interaction with matter.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 575. Solid State Physics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHYS 541 and PHYS 555, or consent of instructor.
Description: Crystal structure, elastic waves, lattice dynamics, phonons, band theory of solids and conductivity phenomena.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 580. Nuclear Physics 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): PHYS 541 and PHYS 555; or consent of instructor.
Description: Phenomenological study of nuclear properties. Nuclear structure and reactions, radioactive decay, interaction of charged particles with matter.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 585. Elementary Particle Physics 3 Units
Term Typically Offered: Spring Even Years
Prerequisite(s): PHYS 541 and PHYS 555, or consent of instructor.
Description: Properties of elementary particles. Detectors and accelerators. Weak and electromagnetic interactions. Quark model of hadrons, strong interactions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 589. General Relativity 3 Units
Term Typically Offered: Spring Even Years
Prerequisite(s): MATH 301 and PHYS 460.
Description: Review of classical gravitational and special relativity. Riemannian geometry, Einstein field equations, exact solutions, tests of the theory, gravitational collapse and black holes, gravitational waves, cosmology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 590. Astrophysics 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): PHYS 307 and PHYS 350, or equivalent.
Description: Physics applied to the interstellar medium; the atmospheres, structure, and evolution of stars; galaxies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 595. Special Topics 1-3 Units
Description: Introduction to an advanced topic or elaboration of an intermediate topic not treated comprehensively in a regular course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHYS 601. Quantum Mechanics Laboratory 3 Units
Prerequisite(s): PHYS 621 or PHYS 555 (may be taken concurrently).
Description: Laboratory exercises demonstrating the principles of Quantum Mechanics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 605. Theoretical Mechanics 3 Units
Prerequisite(s): PHYS 460, PHYS 561 and PHYS 562, and consent of instructor.
Description: Analytical dynamics of systems of particles and rigid bodies. Hamiltonian and Lagrangian formulations, special relativity, canonical transformations, Hamilton-Jacobi theory and action-angle variables.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 611. Electromagnetic Theory I 3 Units
Prerequisite(s): PHYS 542 and PHYS 561, and consent of instructor.
Description: Microscopic and macroscopic Maxwell's equations; The energy-momentum tensor; multipole radiation; radiation from accelerated charges; scattering and dispersion; and covariant formulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 612. Electromagnetic Theory II 3 Units
Prerequisite(s): PHYS 542 and PHYS 561, and consent of instructor.
Description: Microscopic and macroscopic Maxwell's equations; The energy-momentum tensor; multipole radiation; radiation from accelerated charges; scattering and dispersion; and covariant formulation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 621. Quantum Mechanics I 3 Units
Prerequisite(s): PHYS 556 and PHYS 605, and consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 622. Quantum Mechanics II 3 Units
Prerequisite(s): PHYS 556 and PHYS 605, and consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 625. Statistical Mechanics 3 Units
Prerequisite(s): PHYS 530 and PHYS 555, and consent of instructor.
Description: Application of ensemble or information theory to derivation of the laws of thermodynamics for classical or quantum systems. Properties of perfect and imperfect gases, magnetic phenomena, fluctuation phenomena, and the Onsager equations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 640. Solid State Physics I 3 Units
Prerequisite(s): PHYS 575, and concurrent registration in Quantum Mechanics, and consent of instructor.
Description: Quantum mechanical foundation of the theory of solids, the many-body problem, the band approximation, and other approximate methods. Electron-photon interaction, theory of superconductivity, electronic transport processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 641. Solid State Physics II 3 Units
Prerequisite(s): PHYS 575, and concurrent registration in Quantum Mechanics, and consent of instructor.
Description: Quantum mechanical foundation of the theory of solids, the many-body problem, the band approximation, and other approximate methods. Electron-photon interaction, theory of superconductivity, electronic transport processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 650. Research Methods in Physics & Astronomy 3 Units
Grading Basis: Pass/Fail
Description: A survey of research methodologies. Topics may include modeling and simulation, experimental, theoretical, and computational techniques used in any branch of Physics and Astronomy, particle detector technologies, advanced handling of data statistics, data mining, laboratory safety, and research ethics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 670. Special Topics 1-12 Units
Prerequisite(s): Concurrent or previous registration in PHYS 605, PHYS 611, or PHYS 621; and consent of instructor.
Description: One or more advanced topics not treated comprehensively in the regular courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 690. Independent Study 1-12 Units
Prerequisite(s): Consent of instructor.
Description: Advanced study conducted under the direction of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 695. Research Seminar 1-12 Units
Prerequisite(s): Consent of instructor.
Description: Regular but informal meetings of faculty members and graduate students active in an area of research to discuss problems of mutual interest, and to review the current literature.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHYS 699. Research 1-12 Units
Prerequisite(s): Consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Physiology and Biophysics (PHZB)

PHZB 602. Physiological Concepts for General Life Sciences  2 Units
Description: This course covers the fundamental function of membranes; autonomic (ANS), hypothalamic, and central (CNS) neural control; and for integrated function of muscle, heart, circulatory, renal, endocrine, reproduction, and gastrointestinal organ systems. Emphasis is placed on physiological mechanisms for integrated feedback control of organ and tissue function in humans. Overall, this course offers a solid basis in physiological concepts for post-baccalaureate life-science graduate students to enhance their advanced studies of life sciences. This course teaches by combined didactic lecture and student problem-solving class sessions, and by concept-problem reviews. This course is offered only on a letter-grade basis. The Course Faculty reserves the right to make changes in this syllabus when necessary to meet learning objectives and course management.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 604. Stem Cell Biology and Regenerative Medicine  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Permission from course director.
Description: This course will provide a comprehensive overview on this intriguing and highly debated topic. The course will focus on the biology of stem cells and their role in health and disease with emphasis on development, carcinogenesis and tissue engineering. Lectures on various aspects of stem cells from renowned experts will cover both embryonic, induced pluripotent and adult stem cells. Specific lectures will include stem cell types present in the blood, liver, brain, muscle, kidney, pancreas, prostate, lung, gut, skin, and eye. Fellows/graduate students will also be educated on therapeutic cloning as well as bio-ethical issues and existing laws governing stem cell research.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 605. Systemic Physiology I  5 Units
Prerequisite(s): Admitted into SIGS.
Description: The first of two human physiology courses that are offered the first year of the graduate programs in the Department of Physiology and Biophysics and other basic science departments at the SOM. This course contains four lectures and one hour of recitation/application of the preceding four lectures per week. Mandatory attendance is required for all class sessions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 606. Systemic Physiology II  5 Units
Prerequisite(s): Admitted into SIGS.
Description: The second of two human physiology courses that are offered the first year of the graduate programs in the Department of Physiology and Biophysics. This course contains four lectures and one hour of recitation/application of the preceding four lectures per week. Mandatory attendance is required for all class sessions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 607. Principles of Presentations: Self, Science, Interviews  3 Units
Description: This course will provide instruction in best practices for oral-based presentations. There will be multiple oral presentation topics covered, including: Basic Presentations; Using Visual Aids, Charts and Figures; Distilling and Presenting a Clear and Understandable Hypothesis and Specific Aims; Interviews; and Scientific Poster Presentations. Students will attend lectures, participate in small group discussions and present five different types of oral-based presentations. A mid-term and final exam (each 50% of overall grade) will be used to assess student understanding of the knowledge centered on making clear, concise and purposeful oral presentations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 609. Integrated Systemic Physiology  3 Units
Prerequisite(s): PHY 601 or PHZB 601 and consent of instructor.
Description: Designed to provide reinforcement, expansion and integration of basic physiologic concepts of human organ systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 611. Advanced Human Cardiovascular Physiology  3 Units
Prerequisite(s): PHZB 605 or consent of instructor.
Description: PHZB 611 utilizes lectures on the physiological and biochemical processes in the heart, blood vessels and blood elements to provide more detailed mechanisms from molecular to systematic levels and normal to pathological states.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 615. Clinical Physiology  6 Units
Prerequisite(s): PHZB 605 & PHZB 606.
Description: This is a 6-credit hour course that uses clinical situations to examine and reinforce mechanisms important to understanding systemic physiology. There are six areas covered: 1) electrical functioning of the heart, 2) blood pressure and circulatory control mechanisms, 3) ventilation and perfusion of the lungs, 4) gastrointestinal blood flow and acid production, 5) blood flow and oxygen utilization by the heart, and 6) control of the many endocrine functions. This course utilizes a combination of faculty-lead teaching techniques that include: team based learning (TBL), problem based learning (PBL), and in-class exercises. All course materials have been prepared by the supervising faculty and will be available to students online as needed.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 616. Selected Topics in Physiology and Biophysics  1-12 Units
Description: Detailed discussion of physiological and biophysical problems of particular interest to students and staff. Topics will be announced in the schedule.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 617. Seminar in Physiology and Biophysics  1 Unit
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHZB 619. Research 1-20 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 620. Thesis 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 625. Experimental Physiology Methods 1 Unit
Prerequisite(s): Admitted into SIGS.
Description: Experimental Physiology Methods is a first course available to matriculating students in the initial year of graduate physiology programs. This course is designed to broadly introduce the use of the scientific methods on studying hypothesis-related research in physiology. This course is now designed to be taken by all matriculating graduate students, but only 1 credit hour (instead of the previous listing for 3). Beginning doctoral students will take this course in concurrence with the general "methods course" by the Interdepartmental Programs in Basic Science each fall semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 630. Biomedical Applications of Physiology in the Eye 3 Units
Description: This course gives the basic physics and advanced physiologic principles that relate to function of the eye as an organ system, uncovers the physics behind basic instruments used for diagnostics of eye health, introduces the student to various professions that are involved in eye health, and discusses the biomedical aspects of several problems that are frequently encountered in medical eye health. Overall, this course offers a solid background in physiology, pathophysiology, measurements methods, and biomedical aspects of the eye to well-prepare a student for pursuit of a career in professions related to eye health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHZB 799. Dissertation 1-12 Units
Prerequisite(s): Permission of departmental chair.
Description: The terminal research course for the PhD degree to finalize data analyses and manuscript preparation for the doctoral dissertation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Planning (PLAN)

PLAN 500. Economics for Public Affairs 3 Units
Description: An introduction to basic economic concepts and their application to public affairs and urban planning.
Note: Cross-listed with PADM 500.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 501. Urban Environmental Quality 3 Units
Prerequisite(s): Consent of instructor.
Description: A study of environmental aspects of urban areas and analysis of inter- and intra-city variations in environmental quality.
Note: Cross-listed with GEOG 561.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 600. Planning History and Issues 3 Units
Prerequisite(s): Consent of instructor.
Description: The history of planning and contemporary issues with a special emphasis on the role of planners, zoning and law.
Note: Cross-listed with GEOG 628.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 601. Planning Theory and History 3 Units
Description: This course will introduce the historic foundation of modern urban planning, and will investigate the central themes in planning theory, using both historical and contemporary contexts to assist in the understanding of its role in shaping planning thought and practice.
Note: Cross-listed with PADM 607 and UPA 684.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 602. Statistics for Public Affairs 3 Units
Description: Covers descriptive statistics, probability, sampling, tests of significance, correlation, regression analysis, and the use of statistical software packages.
Note: Cross-listed with PADM 601.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 603. Urban Economics 3 Units
Prerequisite(s): PLAN 500 and ECON 500, or consent of instructor.
Description: Application of economic theory to urban policy issues including metropolitan development and job creation, poverty, crime, transportation, environment, spatial structure, and other issues.
Note: Cross-listed with ECON 605, UPA 603, and PADM 640.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 604. Urban Data Analysis 3 Units
Description: Provides students with the basic analytical tools commonly used by professional planners and public administrators. The use of computers in applying these tools will be emphasized.
Note: Cross-listed with PADM 623.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PLAN 605. Land Use & Planning Law 3 Units
Description: Examination of legal issues related to planning and land use activities in the U.S. It explores the legal standards by which land use is regulated, planned. Students will study various legal and regulatory tools, including ordinances, state and federal legislation, and legal decisions. Considerable attention will be given to planning perspectives on legal problems, as well as legal perspectives on planning problems.
Note: Cross-listed with LAW 904 and UPA 678.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 606. Professional Practice 3 Units
Description: Topics include: government organization; the role of planning in governmental decision-making; the planner's relations with citizens, politicians and administrators; strategies for dealing with conflict, pressure, and uncertainty; and ethics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 607. Land Use Planning 3 Units
Description: This course provides an understanding of the history and current characteristics of land use planning and policy. Topics include the comprehensive plan, regulatory controls such as zoning, fiscal mechanisms of control, land use and environmental disputes, regional planning, and growth management.
Note: Cross-listed with UPA 683.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 608. Geographic Information Systems 3 Units
Prerequisite(s): Consent of instructor.
Description: Application of GIS to real world projects. An emphasis will be placed on the development of a digital spatial database.
Note: Cross-listed with GEOG 657 and UPA 629.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 609. Public Budgeting and Finance 3 Units
Description: Examines public budgeting and finance from economic, political, and institutional perspectives. Topics include: budget process, approaches and techniques of budgeting, ethics, intergovernmental fiscal relations, revenue-raising, capital budgeting, debt administration and risk management.
Note: Cross-listed with UPA 647 and PADM 604.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 610. Public Management 3 Units
Description: Administration of the organization from the point of view of top level management. Formulation and administration of policies and practices. Development of long-range strategic plans as well as the diagnosis, analysis, and evaluation of specific organizational problems.
Note: Cross-listed with UPA 672 and PADM 605.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 611. Human Resources Management 3 Units
Description: Basic theories, public policies, laws, regulations, problems, and prospects of human resource development and management within the context of the public sector.
Note: Cross-listed with PADM 642 and UPA 667.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 612. Mediation and Dispute Resolution 3 Units
Description: Designed principally for incipient practitioners of the mediation process. Class participation serving as a mediator in cases presented to the class, and a short paper depicting mediating in process are the course requirements.
Note: Cross-listed with PADM 648 and POLS 628.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 613. Foundations of Public Administration 3 Units
Description: Using the classic writings in the field of public administration for the past 150 years, the course explores the theoretical foundations of public administration and applies the theories to current practice in public administration.
Note: Cross-listed with PADM 600, POLS 625, and UPA 661.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 614. Real Estate Market Analysis 3 Units
Prerequisite(s): Consent of instructor.
Description: Covers concepts, methodologies and analytical tools used in urban real estate market analysis, with a particular emphasis on site selection using GIS applications.
Note: Cross-listed with GEOG 635.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 615. Spatial Statistics 3 Units
Prerequisite(s): PLAN 602 or consent of instructor.
Description: The analysis of spatial patterns and processes through the use of spatially-based statistics.
Note: Cross-listed with GEOG 656.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 616. Analytical Urban Geography 3 Units
Prerequisite(s): GEOG 328, SOC 305, or consent of instructor.
Description: Advanced analysis of urban spatial processes and patterns with an emphasis on qualitative models.
Note: Cross-listed with GEOG 658.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PLAN 617. Housing and Community Development 3 Units
Description: Examines issues in housing and community development.
Note: Cross-listed with UPA 648 and PADM 626.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 618. Urban Demography and GIS 3 Units
Term Typically Offered: Spring Only
Description: A spatial analysis of the distribution, characteristics, growth and change of the population of a metropolitan area.
Note: Cross-listed with SUST 518 and PADM 621.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 619. Urban Geographic Information Systems Applications 3 Units
Prerequisite(s): PLAN 608, UPA 629, or GEOG 657.
Description: Application of advanced GIS concepts to urban planning database projects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 620. Environmental Policy 3 Units
Description: Survey of environmental issues and policies designed to address those issues.
Note: Cross-listed with PADM 627, UPA 679, and POLS 627.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 621. Urban Infrastructure 3 Units
Description: Planning, financing, implementation, and operation of urban infrastructure systems.
Note: Cross-listed with UPA 696.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 622. Urban Design 3 Units
Description: Covers theories, principles, and processes of urban design, including applications to actual design problems.
Note: Cross-listed with UPA 682.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 623. Environmental Policy and Natural Hazards 3 Units
Description: Explores the relationship of environmental policy and planning with natural hazards and disasters, with an emphasis on preparation for and mitigation of impacts.
Note: Cross-listed with PADM 630 and UPA 687.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 624. Urban Transportation Planning 3 Units
Prerequisite(s): ECON 605, PADM 640, PLAN 603, or UPA 603.
Description: Analysis of characteristics and costs of existing and innovative urban transportation systems. Role of planning methods in estimating transportation usage and choosing optimal plans.
Note: Cross-listed with UPA 690.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 625. Historic Preservation and Sustainable Practice 3 Units
Term Typically Offered: Spring Only
Description: This course is a graduate level course on historic preservation, examining sustainable practices in Louisville and other regions. The course examines architecture and the built environment as it relates to historic preservation, urban revitalization, and the contributions of other disciplines such as urban planning, economics, and political science to the principles and practice of preservation.
Note: Course is cross-listed with PADM 651 and UPA 651.
Note: Course fee.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 626. Economic Development 3 Units
Description: The course provides an introduction to the many facets of economic development, including the context theory, process and practice of economic development planning and policy.
Note: Cross-listed with PADM 645, UPA 640, POLS 603.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 628. Economic Conditions and Forecasting 3 Units
Prerequisite(s): ECON 600 or ECON 605/UPA 603/PLAN 603/PA DM 640.
Description: Develops quantitative tools for the analysis and forecasting of economic phenomena. Both structural & time models are presented. Basic Econometric methods are used to fit models and evaluate their forecasting properties.
Note: Cross-listed with ECON 620 and UPA 624.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 631. Real Estate Principles 3 Units
Description: The course provides decision makers with an understanding of real estate that will enable them to make informed business and development decisions relating to real estate development.
Note: Cross-listed with FIN 631.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 632. Independent Study 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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| PLAN 633   | Real Estate Development                         | 3     | Description: An introduction to real estate development as an entrepreneurial opportunity and to the study of the interrelationship dynamics of marketing, finance, property management, site acquisition and disposition.  
Note: Cross-listed with FIN 633.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 634   | Real Estate Finance and Investment               | 3     | Description: Introduction to financial and investment analysis with applications to real estate.  
Note: Cross-listed with FIN 634.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 635   | Comparative Urban Development                    | 3     | Description: Examines urban development in a cross national perspective. Traces the formulation, strategy and implementation or management of urban development policy in a number of nations. While the emphasis is on North America and West Europe, the lessons have broader relevance for other parts of the world, and will be applied to developing areas.  
Note: Cross-listed with UPA 623.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 636   | Site Planning                                   | 3     | Description: This course introduces art and aesthetics of site planning through lectures, readings, discussions, site visits, and a studio project.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 637   | Netherlands: Policy and Planning                 | 3     | Description: This course examines the Dutch Model from a variety of viewpoints, including sociological, economic, political, historical, design, and planning perspectives. Includes a field trip to the Netherlands.  
Note: Cross-listed with PADM 637.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 645   | Dogs in Society: An Interdisciplinary Examination of Human Canine Connection | 3     | Description: This course examines the evolution of dogs as human partners in society and delves into the relationship of our species with one another. It explores medical, safety, ethical, regulatory and legal issues, including the Americans with Disabilities Act and municipal approaches to regulating ownership. It considers behavioral adaptations of both species and some of the cutting-edge research in canine neuroscience.  
Note: Cross-listed with PADM 646.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 649   | Planning Internship                             | 1-3   | Prerequisite(s): Consent of instructor.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 650   | Capstone Studio                                 | 3     | Description: This course integrates the various elements of the planning program while providing the opportunity to work on real planning problems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 651   | Urban Design Studio                             | 3     | Description: This course introduces skills, practices, and values fundamental to successful neighborhood planning as well as explores the various planning approaches upon which the field is based.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 652   | Neighborhood Planning Studio                    | 3     | Description: The course introduces skills, practices, and values fundamental to successful neighborhood planning as well as explores the various planning approaches upon which the field is based.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 653   | Social Equity and the Public Sector             | 3     | Description: This course will provide a comprehensive review of social equity in American public administration. There is a course fee of $12.50/credit hour.  
Note: Cross-listed with PADM 663 and UPA 663.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
| PLAN 654   | Cultural Competency and Action                  | 3     | Description: This course primarily focuses on the professional development of public administrators. It seeks to improve their knowledge about diverse issues of discrimination and prejudice in the public sector. It provides a framework for examining factors related to discrimination as well as racism, sexism, and heterosexism in terms of political history, power, stereotyped perceptions and practices across society, groups and among individuals. There is a course fee of $12.50/credit hour.  
Note: Cross-listed with PADM 664 and UPA 664.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm) |
PLAN 670. Sustainable Development and Planning

Description: The course is designed to address the institutions and governance in sustainable development, and will take an interdisciplinary approach. The course will support the proposed interdisciplinary MA/MS in Sustainability degree, anticipated for a Fall 2015 start.

Note: The course will be open to graduate students in any program at UofL.

Note: Cross-listed with PADM 670, UPA 670.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 673. Behavioral Dimensions of Urban Sustainability

Prerequisite(s): Graduate standing.

Description: The course is designed to address the behavioral dimensions of Urban Sustainability. The course will be open to graduate students in any program at UofL.

Note: Cross-listed with PADM 673, UPA 673.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 674. Sustainable Urbanism

Prerequisite(s): Graduate standing.

Description: The course is designed to address the theoretical issues, concepts and viewpoints on Sustainable Urbanism from sociological, psychological, economical, political, historical, design, and planning perspectives. The course will be open to graduate students in any program at UofL.

Note: Cross-listed with PADM 674, UPA 674.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 675. Introduction to Sustainability

Prerequisite(s): Graduate standing.

Description: It is a graduate survey course of theory, issues and challenges in the area of sustainability. Open to any graduate student at UofL.

Note: Cross-listed with PADM 675, UPA 675.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 676. Sustainable Social-Ecological Systems

Prerequisite(s): Graduate standing.

Description: The course is designed to address the social and ecological frameworks for understanding and applying sustainability concepts in both theory and practice. The course will be open to graduate students in any program at UofL.

Note: Cross-listed with PLAN 676 and UPA 676.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PLAN 680. Special Topics in Urban Planning

Description: An advanced study of a selected topic in urban planning.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Political Science (POLS)

POLS 501. Topics in American Politics

Description: An advanced examination of one or more selected contemporary problems in American government, such as national-state relationships, civil rights, foreign policy, labor relations, and taxation policy.

Note: Topics to be varied from year to year.

Note: Individual research projects and reports will be required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 502. Topics in Comparative Politics

Description: A comparative study of governments of selected countries, stressing one or more subjects such as party systems, policy-making processes, administration, regulation of economics, and others to be determined each time course is offered.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 504. Topics in Political Theory - WR

Prerequisite(s): Senior standing or faculty consent.

Description: An examination of one or more selected topics in the study of political philosophy. Individual research projects and reports are required.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 505. Topics in Urban and Public Policy

Description: An interdisciplinary study of metropolitan problems, providing an opportunity to probe into basic long-range trends and human factors.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 506. Topics in International Relations

Prerequisite(s): Consent of instructor.

Description: An advanced focus on one or more selected topics in world politics. Research projects, reports and simulations will likely be required.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 507. Topics in Digital Politics

Description: Investigation of the role of information technology in politics and policy-making with a focus on real-world applications. Topics may include political campaigns, interest group advocacy, and e-government.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 510. Louisville Metro Council Internship
Term Typically Offered: Fall Only
Description: Consent of instructor.
Prerequisite(s): Practical internship in government.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 511. Practicum
Prerequisite(s): Consent of instructor.
Description: Practical internship in government.
Note: Application must be made before enrollment.
Note: Placement opportunities are limited.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 512. Frankfort Legislative Internship 3 Units
Description: This course offers students the opportunity to experience working in the office of an elected member of Kentucky General Assembly. Interns work an average of 16 hours per week during the legislative session. Intern responsibilities may vary, depending on the intern’s experience and interests as well as the needs of the office. The primary objectives of the intern program include: providing students the opportunity to gain first-hand experience working in government and politics, generating insight into the realities of the political process and how it relates to traditional theoretical perspectives of political science, and educating students about the possibilities of public service and politics as a career choice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 520. Coping with Conflict 3 Units
Description: This active-learning course involves students negotiating and then analyzing realistic hypothetical cases related to local, national, and international issues found within the North American countries. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 530. International Negotiation 3 Units
Description: An examination of the politics of interstate bargaining. Various theoretical perspectives are examined as well as several real world examples. Students will participate in role-playing exercises.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 552. Politics through Film 2-3 Units
Description: An examination of authority patterns, political change, using cinematic portrayals as the primary literature base for investigation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 563. Women in Developing Countries - WR 3 Units
Description: Follows the progress of the international women’s movement by focusing on the emergence of women leaders and their work in developing countries since the First World Conference on Women, 1975 to the present.
Note: Cross-listed with WGST 558.
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 568. Feminist Theory - WR 3 Units
Description: Survey of the history and scope of the feminist tradition with emphasis upon liberal, radical, Marxist, socialist, psychoanalytic, and postmodern approaches to feminist theory.
Note: Cross-listed with WGST 556.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both WGST 556/POLS 568 and WGST 656/POLS 668.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 602. Urban Political Economy 3 Units
Description: Examines the role of public/private sectors in shaping policy in community and consequences for urban growth and quality of life.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 603. Economic Development 3 Units
Description: The use and application of static and dynamic models for urban community development. Includes economic base industry and firm location models, and community growth. Topics include transportation, energy, pollution, income distribution, and employment.
Note: Cross-listed with PADM 645, UPA 640 and PLAN 626.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 605. Management of Nonprofit Organizations 3 Units
Description: Management of nonprofit organizations is a graduate seminar in the Masters of Public Administration program. Its purpose is to apply management theories and concepts to nonprofit organizations. As such, the emphasis of this seminar will be relating how non-profits are managed in a time of scarce resources. Furthermore, students will understand challenges faced by managers as they seek to meet mission objectives, attract public and private support, work with and motivate volunteers, collaborate with other sectors, and meet the challenges of meeting performance objectives.
Note: Cross-listed with PADM 609.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 609. Seminar in Urban Problems     3 Units
Description: Exploration of field of urban politics/government with focus on urban institutions, governance and selected urban problems and policies. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 615. Administrative Law and Process     3 Units
Description: Study of processes of law-making and application by governmental executive departments. Encompasses substantive issues facing agencies in designing and implementing effective regulation and court efforts to interpret and control agencies’ activities.
Note: Cross-listed with PADM 610/UPA 662.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 619. Seminar in Public Policy     3 Units
Description: Formulation, implementation, qualitative evaluation, ethical aspects of public policy including political, legal, and administrative aspects.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 620. Topics in Public Policy     3 Units
Description: An examination of one or more selected topics in the study of public policy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 625. Foundations of Public Administration     3 Units
Description: Using the classic writings in the field of public administration for the past 150 years, the course explores the theoretical foundations of public administration and applies the theories to current practice in public administration.
Note: Cross-listed with UPA 661, PADM 600, & PLAN 613.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 627. Environmental Policy     3 Units
Description: Survey of environmental issues and policies designed to address these issues.
Note: Cross-listed with PADM 627, PLAN 620, UPA 679.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 628. Mediation and Dispute Resolution     3 Units
Description: Designed principally for incipient practitioners of the mediation process. Class participation, serving as a mediator in cases presented to the class, and a short paper depicting mediating in process are the course requirements.
Note: Cross-listed with PADM 648 and PLAN 612.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 629. Seminar in American Politics     3 Units
Description: Current approaches, issues in American politics, evaluation of state of knowledge in various subfields of American government, politics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 630. Topics in American Politics     3 Units
Description: Investigation of selected problems in American politics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 638. Seminar in American Foreign Policy     3 Units
Description: Issues and perspectives in American foreign policy topics include theories of American foreign policy, historical epochs in the Cold War era, alternative strategies in nuclear deterrence, America’s responses to the post-Cold War environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 639. Seminar in International Relations     3 Units
Description: Study of world politics, focusing on central theoretical perspectives and substantive issues affecting interstate conflict and cooperation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 640. Topics in International Relations     3 Units
Description: Study of selected substantive or theoretical issues involving world politics.
Note: Topics will vary from semester to semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 641. Clash of Civilizations in the 21st Century     3 Units
Description: This course examines three major civilizations, Western, Islam and Chinese, and their roles in international relations in the 21st century.
Note: Cross-listed with AST 641.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 647. Seminar in Latin America     3 Units
Description: The political and social-economic developmental processes of Latin American nations. Testing of hypotheses concerning political parties, electoral processes, elites, and development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 649. Seminar in Comparative Politics     3 Units
Description: Survey of major theories, concepts, approaches of comparative politics, development of the field and methodology of comparative political analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
POLS 650. Topics in Comparative Politics  3 Units  
Description: Study of politics and government in selected countries/regions, or study of processes, institutions or policies from a cross-national perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 668. Feminist Theory  3 Units  
Description: Survey of the history and scope of the feminist tradition with emphasis upon liberal, radical, Marxist, socialist, psychoanalytic, and postmodern approaches to feminist theory.
Note: Cross-listed with WGST 656.
Note: Credit may not be earned for both WGST 556/POLS 568 and WGST 656/POLS 668.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 670. Research Design  3 Units  
Description: This course addresses how the scientific method applies to studying social and political phenomena. It offers a survey of the various qualitative and quantitative data collection and analysis methods used in social and political research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 671. Introduction to Data Analysis  3 Units  
Description: This course is an introduction to quantitative statistical methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 672. Independent Study I  1-12 Units  
Description: Credit according to achievement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 672B. Independent Study II  1-12 Units  
Description: Credit according to achievement.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 695. Directed Research  3 Units  
Prerequisite(s): Student must be in last semester of his/her course work.
Description: An intensive independent research project directed by a department faculty member. Intended for students completing the non-thesis degree option.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

POLS 699. Thesis Guidance  1-6 Units  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Psychology (PSYC)

PSYC 516. Introductory Mathematical Psychology  3 Units  
Prerequisite(s): PSYC 201.
Description: Survey of basic applications of probability and mathematics to models and theories in learning, perception, and social psychology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 524. Psycholinguistics  3 Units  
Prerequisite(s): PSYC 322 or LING 518.
Description: Survey and analysis of current theory, research and application in a specialized topic of current interest.
Note: Undergraduate, Psychology Honors, or graduate credit available with consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 556. Race and Gender in Psychological Research  3 Units  
Description: Critical review of psychology with respect to issues of race and gender. Examines theory and research paradigms, modern, postmodern and Afrocentric methodologies.
Note: Cross-listed with PAS 556.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 571. Special Topics in Psychology  3-4 Units  
Term Typically Offered: Occasionally Offered  
Prerequisite(s): Consent of instructor.
Description: Survey and analysis of current theory, research and application in a specialized topic of current interest.
Note: Undergraduate, Psychology Honors, or graduate credit available with consent of instructor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 581. Introduction to Health Psychology  3 Units  
Prerequisite(s): PSYC 201 or consent of instructor.
Description: Survey of theory and research on psychological factors which contribute to health and well-being, and to the occurrence, severity, and remediation of illness and disease.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 582. Introduction to Clinical Psychology  
Prerequisite(s): Junior, Senior, or master's-level student with 9 or more credit hours in Psychology beyond PSYC 201.  
Description: Examines the history, theoretical foundations, and methods of clinical psychology. Emphasis on areas of clinical practice, along with understanding how basic research methods are employed to explore clinical questions and support clinical practice.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 600. Research in Cognition  
Prerequisite(s): Consent of area coordinator.  
Description: Supervised research on topics in cognition.  
Note: May be repeated.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 601. History of Modern Psychology  
Description: An advanced course in the history and development of theories and systems of modern psychology.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 602. Research in Experimental Psychology  
Prerequisite(s): Restricted to doctoral students in Psychological & Brain Sciences.  
Description: Covers topics related to research in Experimental Psychology.  
Note: May be repeated.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 603. Master's Degree Research  
Prerequisite(s): Consent of instructor.  
Description: Research leading to master's degree, to be planned and carried out under the guidance and direction of a committee of faculty members. This research can take the form of either a master's thesis project or a research portfolio as specified by the student's program.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 604. Independent Study (Reading)  
Grading Basis: Pass/Fail  
Prerequisite(s): Consent of instructor.  
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study. Pass/Fail grading.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 605. Independent Study (Research)  
Prerequisite(s): Consent of instructor.  
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study/research.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 606. Professional Development Lab  
Grading Basis: Pass/Fail  
Prerequisite(s): Clinical psychology program.  
Description: An orientation course for newly-enrolled graduate students in clinical psychology. Covers tools needed to succeed in graduate school (e.g., computer technology and library skills), introduces faculty research areas, provides discussion of issues related to clinical supervision and ethical behavior, and provides students with assistance in developing and implementing research ideas for their thesis projects.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 607. Statistics  
Prerequisite(s): PSYC 301 or equivalent or consent of instructor.  
Description: Analysis of psychological data for masters students. Topics surveyed include analysis of variance and multiple regression. Use of statistical computer packages is emphasized.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 609. Topical Seminar in Psychology  
Prerequisite(s): Major in psychology or related area and consent of instructor.  
Description: Seminars dealing with interdisciplinary issues of modern psychology. Subject matter to be indicated in semester schedules.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 610. Advanced Statistics I  
Prerequisite(s): Admission to the doctoral program or consent of instructor.  
Description: Review of elementary statistics from a theoretical point of view; probability theory including sample spaces, random variables, density and distribution functions, expectations, and moments; estimation and properties of estimators; hypothesis testing, regression and correlation, and nonparametric methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 611. Advanced Statistics II  
Prerequisite(s): PSYC 610.  
Description: A second course for graduate students in experimental design and statistical analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 612. Advanced Statistics III  
Prerequisite(s): PSYC 610 and PSYC 611.  
Description: Develops a facility on the part of the student in the application of the techniques of multivariate analysis of variance, regression analysis, multidimensional scaling.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 613. Research Methods in Vision and Hearing Science  3 Units
Description: Survey of basic research methods in vision and hearing science. Includes signal detection theory; information theory, psychophysics, analysis techniques; measurement of light and sound; recording and imaging techniques, and clinical methods. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 614. Advanced Multivariate Modeling  3 Units
Prerequisite(s): SOC 610, or PSYC 612, or equivalent.
Description: Multivariate statistical techniques in both theoretical and applied sociological research settings.
Note: Cross-listed with SOC 616.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 620. Human Learning  3 Units
Prerequisite(s): Consent of instructor.
Description: Analysis of basic concepts of conditioning and discussion of major theoretical issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 621. Cognitive Processes  3 Units
Prerequisite(s): Consent of instructor.
Description: Discussion of attention, memory, thinking, and concept learning; language; and problem solving.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 622. Proseminar in Cognition  1-3 Units
Prerequisite(s): Consent of area coordinator.
Description: Critical study of theory and research in cognitive psychology.
Note: May be repeated.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 624. Language and Cognition  3 Units
Prerequisite(s): PSYC 524/LING 524.
Description: Examination of theory and research on the relationship between fundamental processes of cognition and linguistic processes, e.g., organization of thought, memory, discourse, and text. Note: Cross-listed with LING 624
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 631. Sensation and Perception  3 Units
Prerequisite(s): Graduate doctoral program standing or permission of instructor.
Description: An introductory course to human perception. Course covers perception from neurophysiological encoding and processing of physical stimulation to conscious perception.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 632. Principles of Visual Science  3 Units
Prerequisite(s): PSYC 631, or PSYC 642, or PSYC 643, or consent of instructor.
Description: An introduction to the structure and functioning of the visual system including normal and disrupted visual performance. Surveys and integrates findings from neuroanatomical, electrophysiological, psychophysical and clinical research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 633. Visual Processes  3 Units
Prerequisite(s): Enrollment in doctoral program or consent of instructor.
Description: A consideration of the low-level processes and mechanisms of seeing, including: 1) the sampling and filtering of the image in the eye, 2) the neural representation of the image, and 3) the interpretation of this representation. Emphasis is on form, color and motion abilities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 634. Intermediate-Level Vision  3 Units
Prerequisite(s): Enrollment in doctoral program or consent of instructor.
Description: The following topics covered in this course will emphasize the integration of the various approaches such as psychophysics, cognition, neuroscience, computational theory, etc: Stereopsis and 3-D Space Perception; Texture Segregation and Visual Search; Visual Surface Perception; Structure from Motion.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 635. Sensory Neuroscience  3 Units
Description: Consideration of sensory systems, towards the goal of understanding how multisensory input is integrated to form perceptions. Major topics include transduction and neuron coding principles; development, plasticity, and cross-modal plasticity; visual-motor interactions; eye movements, attention and consciousness.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 636. Human Memory  3 Units
Prerequisite(s): Two semesters of cognitive psychology.
Description: Survey of major theories and research pertaining to memory, including memory disorders, memory development, and related cognitive processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 637. Thinking and Problem Solving  3 Units
Prerequisite(s): Consent of instructor.
Description: Analysis of major research and theory pertaining to concept learning, deductive reasoning, and problem solving.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 638. Decision Making and Reasoning  3 Units
Description: Study of information processing and cognitive theories of decision making and reasoning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 641. Psychopharmacology 3 Units
Prerequisite(s): PSYC 542 and consent of instructor.
Description: The effects of various classes of chemical compounds on experience and behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 642. Behavioral Neuroscience 3 Units
Prerequisite(s): Enrollment in doctoral program or consent of instructor.
Description: Survey of the neural and physiological factors which influence behavior.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 643. Principles of Neuroscience 3 Units
Prerequisite(s): PSYC 642 and PSYC 531, or consent of instructor.
Description: A survey of the processes underlying the functioning of neurons and neural systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 645. Cognitive Neuroscience 3 Units
Prerequisite(s): Consent of instructor.
Description: Neuroanatomical basis of cognitive and motor functions, including attention, memory, and language. Primary focus on brain imaging studies of cognition in normal adults.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 646. Principles of Hearing Science I 3 Units
Prerequisite(s): Permission of instructor.
Description: The first in a two-course sequence in Hearing Science. It will survey contemporary theory and research in audition, with emphasis on modern mathematical and psychological methods. Major topics will include the anatomy and physiology of the auditory system, measurement and control of sound, auditory signal analysis, and basic auditory abilities such as detection, discrimination, and masking.
Note: Cross-listed with AUDI 648.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 647. Principles of Hearing Science II 3 Units
Prerequisite(s): PSYC 646 or consent of instructor.
Description: This is the second course in a two-course sequence in Hearing Science. It will survey research on phenomena in audition that are thought to result from high-level processing in the brain and auditory pathway. Topics will include loudness perception, pitch perception, space perception, auditory object and pattern perception, music perception, and speech perception.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 648. Methods of Psychopharmacology 3 Units
Prerequisite(s): Consent of instructor.
Description: Survey of behavioral techniques for assessing the effects of various classes of chemical compounds on behavior, with emphasis on experimental design, hypothesis testing, data collection, and statistical analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 651. Introduction to Computer Programming for Psychology 3 Units
Description: The objective of this course is a broad introduction to how the MATLAB programming language is used in psychology. No prior knowledge of programming languages will be assumed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 655. Law and Psychology 3 Units
Prerequisite(s): Consent of instructor.
Description: The course emphasis is on seminar discussions of the mutual concerns of law and psychology (insanity defense, involuntary civil commitment, etc.).
Note: Cross-listed with LAW 399.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 656. Legal, Professional, and Ethical Issues in Clinical Psychology 3 Units
Prerequisite(s): Clinical Psychology program or consent of instructor.
Description: An examination of the ethical principles and professional issues in the field of clinical psychology, including aspects related to clinical research. Particular attention is paid to legal problems related to these issues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 661. Advanced Developmental Psychology 3 Units
Prerequisite(s): Consent of instructor.
Description: Survey of the major areas of developmental psychology and of special problems encountered in research with infants and children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 670. Advanced Social Psychology 3 Units
Prerequisite(s): PSYC 372 or consent of instructor.
Description: Advanced study of major areas in social psychology: social learning, person perception, attitudes and attitude change, group dynamics, social structure, and change.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 673. Advanced Personality Theory 3 Units
Prerequisite(s): PSYC 375 and consent of instructor.
Description: A selective and critical examination of current theory and research in the area of personality.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 674. Organizational Psychology 3 Units
Prerequisite(s): Consent of instructor.
Description: Structure and process in organizational development, internal communications, intraorganizational conflicts. Organization theory, consideration of various types of organizational setting: educational, military, institutional, business, and industrial. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 675. Social Psychology Methods 1-3 Units
Description: Presentation and use of current methods in the field of social psychology. Emphasis on developing professional skills.
Note: May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 676. Psychology of Sex Differences 3 Units
Prerequisite(s): Consent of instructor.
Description: An analysis of the interaction of psychosocial and biogenetic factors in the determination of differences in the behavior of the sexes. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 679. Introduction to Assessment and Clinical Skills 3 Units
Prerequisite(s): Enrollment in psychology doctoral program or permission of director of training.
Description: A general introduction to psychological assessment, test development, psychometric theory, basic interviewing, legal considerations, theories of prediction and clinical judgment. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 680. Intellectual and Cognitive Assessment 3 Units
Prerequisite(s): PSYC 679 and clinical psychology program, or permission of director of clinical training.
Description: Administration, scoring, and interpretation of intelligence, aptitude, and academic achievement tests. Psychometric properties and applications are considered. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 681. Behavioral and Personality Assessment 3 Units
Prerequisite(s): Clinical psychology program or permission of Director of Clinical Training.
Description: Covers administration, scoring, and interpretation of the MMPI/Rorschach (Exner system), and principles of cognitive and behavioral assessment techniques. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 683. Psychological Interventions I 3 Units
Prerequisite(s): Enrollment in clinical doctoral program or permission of director of clinical training.
Description: Presents theory and techniques in one or more major therapeutic intervention orientations, along with considerations in applying these interventions such as special populations and varying modalities. Integrated laboratory allows students to apply techniques. Emphasis is on empirically validated techniques. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 684. Psychological Interventions II 3 Units
Prerequisite(s): PSYC 683 or consent of director of clinical training.
Description: Presents theory and techniques in one or more major therapeutic intervention orientations, along with considerations in applying these interventions such as special populations and varying modalities. Integrated laboratory allows students to apply techniques. Emphasis on empirically validated techniques.
Note: Continuation of PSYC 683.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 685. Clinical Psychology Practicum 1-3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Enrollment in clinical psychology doctoral program.
Description: Supervised experience in psychological assessments and interventions utilizing various evaluation techniques and treatment approaches.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 686. Supervised Clinical Psychology Practicum 1-6 Units
Grading Basis: Pass/Fail
Prerequisite(s): PSYC 685 and clinical psychology program.
Description: Supervised experience for specialized problems or in particular techniques, typically for the most advanced students.
Note: May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 687. Topical Seminar in Clinical Psychology 3 Units
Prerequisite(s): Consent of instructor.
Description: Survey in depth of current theories, practice, and research in selected areas relevant to clinical psychology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 689. Clinical Psychopathology 3 Units
Prerequisite(s): Consent of instructor; non-psychology majors must receive permission of instructor to enroll.
Description: A review of the causes and manifestations of psychopathology, with particular emphasis on the relevance of the research literature to the analysis and treatment of clinical cases.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 690. Practicum in College Teaching 1-3 Units
Prerequisite(s): Permission of instructor.
Description: Guidance and training in college teaching of undergraduate psychology courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 691. Program Evaluation 2-3 Units
Description: Review of issues and methods for the assessment of services or treatment efficacy, program effectiveness, and organizational performance in the health and human service areas. Prepares students for conceiving, planning and budgeting, reporting, and implementing program evaluations, need assessments, and client satisfaction studies. Includes preparation for application.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 692. Program Evaluation Project 1 Unit
Prerequisite(s): PSYC 691.
Description: Continues review of issues and methods covered in PSYC 691. Focus is on using the evaluation methods and organizational approaches reviewed in PSYC 691 for students to carry out actual program evaluation projects. Includes writing proposals, collecting and analyzing data, preparing reports, and working with organizations to help in the utilization of findings for organizational decisions and policies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 693. Interviewing Skills Practicum 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Acceptance into doctoral clinical program or consent of instructor.
Description: For first-year clinical doctoral students to receive training in basic interviewing skills, on which all future assessment and psychotherapy skills build. Involves a series of skills modules and videotaped role-play interviews, culminating in a live client interview in the Psychological Services Center. Supervision and training in this course is provided by advanced doctoral students under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 694. Supervision Practicum 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Enrollment in doctoral clinical program.
Description: A companion course to PSYC 693. Students registered for this course will be fourth-year doctoral students (in exceptional cases, third-year students) who wish to develop their supervisory skills. Under the supervision of a faculty member, students registered for these courses will train first-year students acquiring interviewing skills in PSYC 693.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 696. Clinical Aspects of Child Psychopathology 3 Units
Prerequisite(s): Consent of instructor or enrollment in clinical psychology doctoral program.
Description: A review of current diagnostic and therapeutic techniques used by clinical psychologists in treating children.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 697. Psychotherapy Research 3 Units
Prerequisite(s): PSYC 683 or PSYC 684, or consent of instructor.
Description: An examination of psychotherapy research designed to evaluate the current status of psychotherapy and to develop psychotherapy research techniques.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 701. Dissertation Research 1-12 Units
Prerequisite(s): Satisfactory completion of preliminary examination and permission of dissertation director.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 785. Clinical Psychology Practicum in Professional Settings 1-10 Units
Grading Basis: Pass/Fail
Prerequisite(s): Clinical psychology program.
Description: Experience in clinical psychology in professional settings under the supervision of professional clinical psychologists.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 791. Multicultural Counseling Skills: Psychotherapy with Ethnically & Racially Diverse Clients 1-3 Units
Description: This course will help students learn to connect with and engage racially diverse clients in treatment, with an emphasis on culturally competent counseling skills. Students will demonstrate an ability to conceptualize cases from a CBT orientation, incorporating relevant ethnic, racial, social, cultural and economic factors in the conceptualization. Students will demonstrate reliable use of Functional Analytic Psychotherapy (FAP) to improve rapport and connect with racially different clients. Students will be able to incorporate FAP into CBT approaches for the treatment of psychopathology and other difficulties in an individualized and culturally competent manner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PSYC 792. Culture and Diversity in Psychology 3 Units
Description: This course will introduce students to important concepts as they relate to culture, race, and ethnicity in psychology. We will delineate contemporary theories and research, with an emphasis on how different cultural groups within interact within a single social structure (multiculturalism). Critical thinking will be emphasized in order to examine, analyze and evaluate issues pertinent to cultural diversity as it applies to individuals and groups in American society and related research. Additionally, students will become familiar with the empirical literature as it relates to the science and practice of multicultural psychology and gain an appreciation of the experience of stigmatized minorities. Students will be evaluated through weekly assignments, in-class activities, and discussion of culturally sensitive topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 793. Treatment of Trauma in Diverse Populations 1-3 Units
Description: This course will introduce students to clinical assessment and treatment issues as they relate to culture, race, and trauma. Students will demonstrate an ability to conceptualize cases from a CBT orientation, incorporating relevant ethnic, racial, social, cultural and economic factors in to the conceptualization. Students will demonstrate reliable use of structured interviews and self-report measures, with an understanding of the limitations of such measures in minority populations. Students will be able to assess trauma-related symptomology and differentiate it from other psychopathological conditions. Students will apply empirically validated CBT approaches to the treatment of trauma and common comorbidities in an individualized and culturally competent manner. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PSYC 795. Clinical Internship 0 Units
Grading Basis: Credit/No Credit
Prerequisite(s): Doctoral candidacy and classification is GD or GC; program plan is PhD in Clinical Psychology.
Description: This non-credit course is for clinical psychology doctoral students completing their one-year required internship. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Administration (PADM)

PADM 500. Economics for Public Affairs 3 Units
Description: An introduction to basic economic concepts and their application to public affairs and urban planning.
Note: Cross-listed with PLAN 500.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 600. Foundations of Public Administration 3 Units
Description: Using the classic writings in the field of public administration for the past 150 years, the course explores the theoretical foundations of public administration and applies the theories to current practice in public administration.
Note: Cross-listed with POLS 625, PLAN 613, & UPA 661.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 601. Statistics for Public Affairs 3 Units
Description: Covers descriptive statistics, probability, sampling, tests of significance, correlation, regression analysis, and the use of statistical software packages.
Note: Cross-listed with PLAN 602.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 603. Policy Analysis and Program Evaluation 3 Units
Description: The course describes techniques of practical program evaluation as well as institutional context of policy formulation, adoption, implementation, and evaluation. Process evaluation, qualitative approaches, outcome monitoring, natural experiments, quasi-experiments, ratings, use of expert judgment, surveys, role-playing, and focus group topics are covered. The course also describes theories of policy making, the policy environment, agenda setting and decision making.
Note: Cross-listed with UPA 621.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 604. Public Budgeting and Finance 3 Units
Description: Examines public budgeting and finance from economics, political, and institutional perspectives. Topics include: budget process, approaches and techniques of budgeting, ethics, intergovernmental fiscal relations, revenue-raising, capital budgeting, debt administration and risk management.
Note: Cross-listed with UPA 647 and PLAN 609.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 605. Public Management 3 Units
Description: An applied course focusing on developing the knowledge base and skill set one needs to effectively manage a public organization. Special emphasis on leadership models for the public sector.
Note: Cross-listed with UPA 672 and PLAN 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 606. Urban Policy and Administration 3 Units
Term Typically Offered: Fall Only
Description: An introduction to basic issues in urban policy and administration of urban policy. Emphasis on urban policy processes and administrative systems used to implement them. Includes different political frameworks that describe urban dynamics and includes recent research findings on selected urban policy issues.
Note: Cross-listed with UPA 650.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PADM 607. Planning Theory and History 3 Units
Description: This course will introduce the historic foundation of modern urban planning, and will investigate the central themes in planning theory, using both historical and contemporary contexts to assist in the understanding of its role in shaping planning thought and practice.
Note: Cross-listed with UPA 684 and PLAN 601.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 609. Nonprofit Management 3 Units
Description: Management of nonprofit organizations is a graduate seminar in the Masters of Public Administration Program. Its purpose is to apply management theories and concepts to nonprofit organizations. As such, the emphasis of this seminar will be relating how nonprofits are managed in a time of scarce resources. Furthermore, students will understand challenges faced by managers as they seek to meet mission objectives, attract public and private support, work with and motivate volunteers, collaborate with other sectors, and meet the challenges of meeting performance objectives.
Note: Cross-listed with POLS 605.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 610. Administrative Law and Process 3 Units
Description: Study of processes of law-making and application by governmental executive departments. Encompasses substantive issues facing agencies in designing and implementing effective regulation and court efforts to interpret and control agencies’ activities.
Note: Cross-listed with POLS 615/UPA 662.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 611. Financial Management of Nonprofits 3 Units
Description: Examines accounting and financial management for managers of not-for-profit organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 612. Grantsmanship and Fundraising 3 Units
Description: A critical examination of methods and tools for developing grant proposals and raising funds for organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 615. Theories of the Non-Profit and Voluntary Sector 3 Units
Description: Theories of the nonprofit voluntary sector is a graduate seminar in the Master of Public Administration Program. Its purpose is to set out the theoretical and historical foundations, environmental context, and the ways that non-profits collaborate with government and for-profit firms to create a three sector economy. As such the emphasis of this seminar will be on the history and theories of the nonprofit voluntary sector with current practice through required course readings, lectures, group work, guest speakers, and writing assignments. Furthermore, students will be exposed to several theories that explain the existence of the non-profit sector, the reliance on non-profits from government and private enterprise, and the continued growth of the sector.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 621. Urban Demography and GIS 3 Units
Description: A spatial analysis of the distribution, characteristics, growth and change of the population of a metropolitan area.
Note: Cross-listed with SUST 518 and PLAN 618.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 623. Urban Data Analysis 3 Units
Description: Provides students with the basic analytical tools commonly used by professional planners and administrators. The use of computers in applying these tools will be emphasized.
Note: Cross-listed with PLAN 604.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 624. Ethics in Public Administration 3 Units
Description: Analyzes and explains the role of ethics for the practice of public administration. The development of ethical codes is traced from moral and constitutional roots. Course will include case studies and legal precedents.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 625. Organizational Behavior 3 Units
Description: Concepts and theories from the behavioral sciences that describe human behavior in public organizations. Special emphasis on organizational culture and group dynamics.
Note: Cross-listed with UPA 660.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 626. Housing and Community Development 3 Units
Description: Examines issues in housing and community development.
Note: Cross-listed with UPA 648 and PLAN 617.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PADM 627. Environmental Policy 3 Units
Description: Survey of environmental issues and policies designed to address these issues.
Note: Cross-listed with PLAN 620, UPA 679, POLS 627.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 628. Historic Preservation & Sustainable Practice 3 Units
Term Typically Offered: Spring Only
Description: This course is a graduate level course on historic preservation, examining sustainable practices in Louisville and other regions. The course examines architecture and the built environment as it relates to historic preservation, urban revitalization, and the contributions of other disciplines such as urban planning, economics, and political science to the principles and practice of preservation.
Note: Course is cross-listed with PLAN 625 and UPA 651.

Note: Course fee.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 630. Environmental Policy and Natural Hazards 3 Units
Description: Explores the relationship of environmental policy and planning with natural hazards and disasters, with an emphasis on preparation for and mitigation of impacts.
Note: Cross-listed with PLAN 623 and UPA 687.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 637. Netherlands: Policy and Planning 3 Units
Description: This course examines the Dutch Model from a variety of viewpoints, including sociological, economic, political, historical, design, and planning perspectives. Includes a field trip to the Netherlands.
Note: Cross-listed with PLAN 637.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 640. Urban Economics 3 Units
Prerequisite(s): PLAN 500, ECON 500, or consent of instructor.
Description: Application of economic theory to urban policy issues including metropolitan development and job creation, poverty, crime, transportation, environment, spatial structure, and other issues.
Note: Cross-listed with ECON 605, UPA 603 and PLAN 603.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 642. Human Resources Management 3 Units
Description: Basic theories, public policies, laws, regulations, problems, and prospects of human resource development and management within the context of the public sector.
Note: Cross-listed with UPA 667 and PLAN 611.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 644. Collective Bargaining 3 Units
Description: Current issues facing unions and employers in their relations with others, with emphasis on the substantive matters involved in negotiating contracts in both the public and the private sectors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 645. Economic Development 3 Units
Description: The course provides an introduction to the many facets of economic development, including the context, theory, process and practice of economic development planning and policy.
Note: Cross-listed with UPA 640, POLS 603.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 646. Dogs in Society: An Interdisciplinary Examination of the Human Canine Connection 3 Units
Note: Cross-listed with PLAN 645.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 647. Arbitration 3 Units
Description: Role and function of arbitration in labor-management relations; analysis of the principles and practices of arbitration; laws governing arbitration processes; preparation of materials for arbitration cases; conduct of an arbitration hearing; preparation of arbitration findings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 648. Mediation and Dispute Resolution 3 Units
Description: Designed principally for incipient practitioners of the mediation process. Class participation, serving as a mediator in cases presented to the class, and a short paper depicting mediating in process are the course requirements.
Note: Cross-listed with POLS 628, PLAN 612.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 649. Legal Aspects of Human Resources 3 Units
Description: Survey and analysis of laws related to human resources. Problems in administering and enforcing such laws are covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PADM 651. Trade Unions 3 Units
Description: Role of trade unions in the American economy; the organizational structure and operation of trade unions ranging from national to local units. Special problems facing contemporary unions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 652. Equal Opportunity and the Workplace 3 Units
Description: Special problems women, the disabled, and minorities face in labor markets and on the job. The effects of various compensatory employment programs and policies in dealing with these problems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 653. Social Equity and the Public Sector 3 Units
Description: This course will provide a comprehensive review of social equity in American public administration.
Note: Cross-listed with PLAN 663 and UPA 663.

PADM 664. Cultural Competency and Action 3 Units
Description: This course primarily focuses on the professional development of public administrators. It seeks to improve their knowledge about diverse issues of discrimination and prejudice in the public sector. It provides a framework for examining factors related to discrimination as well as racism, sexism, and heterosexism in terms of political history, power, stereotyped perceptions and practices across society, groups and among individuals.
Note: Cross-listed with PADM 664 and UPA 664.

PADM 665. Trade Unions 3 Units
Description: Role of trade unions in the American economy; the organizational structure and operation of trade unions ranging from national to local units. Special problems facing contemporary unions. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PADM 666. Sustainable Development & Planning 3 Units
Description: The course is designed to address theoretical issues, concepts and viewpoints on Sustainable Urbanism from sociological, psychological, economical, political, historical, design, and planning perspectives. The course will be open to graduate students in any program at UofL.
Note: Cross-listed with PLAN 674, UPA 674.

PADM 667. Introduction to Sustainability 3 Units
Prerequisite(s): Graduate standing.
Description: This course primarily focuses on the professional development of public administrators. It seeks to improve their knowledge about diverse issues of discrimination and prejudice in the public sector. It provides a framework for examining factors related to discrimination as well as racism, sexism, and heterosexism in terms of political history, power, stereotyped perceptions and practices across society, groups and among individuals.
Note: Cross-listed with PLAN 675, UPA 675.

PADM 668. Land Use and Planning Law 3 Units
Description: Examination of pertinent legal issues, including ordinances, state and federal legislation, and court rulings, impinging on planning and land use activities.
Note: Cross-listed with PLAN 605 and UPA 678.
PADM 695. Thesis 1-6 Units
Prerequisite(s): Permission of internship-practicum coordinator.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health - Epidemiology (PHEP)

PHEP 501. Introduction to Epidemiology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: Basic epidemiological methods are presented: terminology; study design; issues of contemporary practice; basic skills for interacting with epidemiologists, reading disease control literature, and drawing on epidemiological concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 602. Epidemiological Methods 3 Units
Prerequisite(s): PHEP 501 and enrollment in the School of Public Health and Information Sciences.
Description: This course reviews the design, performance, and analysis of epidemiological research studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 604. Epidemiology of Infectious Disease 2 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course will discuss the epidemiology and prevention of infectious disease.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 605. Research in Infectious Disease 1 Unit
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Corequisite(s): Concurrent enrollment in PHEP 604.
Description: This course provides students with an opportunity to expand the content of epidemiology of infectious disease with a research project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 606. Genetic and Molecular Epidemiology 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: The course examines basic principles of Mendelian inheritance in humans and the fundamentals of genetic action in relation to disease etiology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 607. Epidemiology of Cancer 2 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This is a survey course of the descriptive epidemiology and clinical studies in practice nationally for research on cancer outcomes in the United States and Europe.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 608. Research in Cancer 1 Unit
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Corequisite(s): Concurrent enrollment in PHEP 607.
Description: This course provides students with an opportunity to expand the content of epidemiology of cancer with a site-specific, directed research experience.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 609. Epidemiology of Cardiovascular Disease 2 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course provides an opportunity for students to address the epidemiology and prevention of cardiovascular disease.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 610. Research in Cardiovascular Disease 1 Unit
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Corequisite(s): Concurrent enrollment in PHEP 609.
Description: This course provides students with an opportunity to expand the content of epidemiology of cardiovascular disease with a research project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 611. Nutritional Epidemiology 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course examines epidemiologic methodology in relation to nutritional measures and the epidemiology of nutritional diseases and disorders.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 613. Epidemiology of Aging and Disability 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course covers the principles and methods of epidemiology as applied to the study of aging. Major research issues in aging epidemiology and methods to study them will be presented.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHEP 614. Introduction to Clinical Epidemiology 2 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course introduces the student to the basic concepts of clinical epidemiology, including epidemiological study designs and methods applied in clinical research for determining the sensitivity and specificity of diagnostic criteria, efficacy of treatments and interventions, and evaluating prognosis and outcomes. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 615. Foundations of Global Maternal and Child Heath 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course provides an overview of global maternal and child health (MCH), including both international and U.S. contexts. The course introduce the main components of MCH, MCH history, programs and policies, data sources, epidemiologic issues, and specific MCH challenges for the future. The primary goals of the course are to introduce masters and doctoral students to the issues that affect the health of women and children. This course will incorporate various theories and perspectives, such as the life course perspective; human growth and development; biological, environmental, and social factors related to maternal and child health. This is a survey course that will cover MCH theory, policy, programs, epidemiology, child growth and development, maternal health, and environmental aspects of health. Cross-cutting themes will include socioeconomic aspects, data and epidemiology, and policy. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 616. Disease Surveillance and Health Statistics 3 Units
Prerequisite(s): PHEP 501 and enrollment in the School of Public Health and Information Sciences.
Description: This course reviews the basic concepts and terminology of disease surveillance and covers the spectrum of health statistics, including population censuses, health surveys and disease reporting systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 617. Field Epidemiology 3 Units
Prerequisite(s): PHEP 501 and enrollment in the School of Public Health and Information Sciences.
Description: This course focuses on the practical aspects of doing field epidemiology. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 618. Epidemiologic Methods II 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course reviews epidemiological methods including stratified and logistic regression analysis, survival and proportional hazards modeling and strategies for model building in multivariate analysis. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 619. Biology of Disease in Populations 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course provides an overview of the biology and basic pathophysiology of common acute and chronic diseases and conditions from the epidemiologic perspective. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 620. Environmental and Occupational Epidemiology 3 Units
Prerequisite(s): PHEP 621 and enrollment in the School of Public Health and Information Sciences.
Description: This course offers an overview of selected topics in environmental and occupational epidemiology and methods for studying environmental and occupational determinants of disease. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 621. Statistical Foundations for Epidemiology 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrollment in the MS program in Epidemiology or the Public Health Sciences PhD program with specialization in Epidemiology.
Description: This course introduces essential statistical concepts and foundations for epidemiology students to exercise statistical theory as applied to epidemiologic problem-solving. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 622. Population Pathology 3 Units
Prerequisite(s): Enrollment in the MS program in Epidemiology or the Public Health Sciences PhD program with specialization in Epidemiology.
Description: This course introduces students to the physiologic measures and biomarkers that are used by public health researchers and practitioners to assess the health status of populations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 623. Theoretical Foundations of Epidemiology 3 Units
Prerequisite(s): Enrollment in the MS program in Epidemiology or the Public Health Sciences PhD program specialization in Epidemiology.
Description: This course provides an overview of the history of epidemiology, the development of theory, study designs and methods, and ethical and legal issues in the translation of epidemiologic findings into public health policy. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEP 624. Methods in Reproductive and Perinatal Epidemiology 3 Units
Prerequisite(s): Successful completion of, or concurrent enrollment in, PHEP 501.
Description: This course allows students to pursue foundational studies in the epidemiology of reproduction and maternal/child health with an emphasis on the biology of reproduction, epidemiological studies, and maternal and perinatal health. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 625. Child Health & Development** 3 Units

*Prerequisite(s):* Enrollment in the School of Public Health and Information Sciences.

*Description:* This course focuses on the core processes of human health and development from infancy through adolescence in global contexts covering the developed and developing worlds. This course covers developmental theories, issues and research findings related to physical growth and cognitive, emotional, and social development. This course also covers evaluation and efficacy of popular early intervention programs and policies designed to enhance development in at risk populations of children. Cross-cutting themes will include socioeconomic and cultural aspects of growth and development, epidemiology of disease, data sources, and policy considerations.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 626. Introduction to Social Epidemiology** 3 Units

*Term Typically Offered: Occasionally Offered*

*Prerequisite(s):* Enrollment in the School of Public Health and Information Sciences.

*Description:* This course is an introduction to Social Epidemiology, with an emphasis on the theoretical underpinning of social epidemiology and methodologic issues, including definition/measurement of social constructs, appropriate research designs, and analytic approaches. Topics used as lens for understanding social epidemiologic theory and methods focus on global and domestic maternal and child health.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 627. Survey Research Methods** 3 Units

*Term Typically Offered: Fall Only*

*Prerequisite(s):* Enrollment in the MPH program in the School of Public Health and Information Sciences and PHEP 501.

*Description:* This course will provide students with a comprehensive understanding of survey research methods. It will focus on all aspects of the survey research process, from sampling, design of instruments prior to data collection, including online instruments, and including analysis of survey data and reporting. Students will learn about sources of bias, psychometrics (assessing validity and reliability), measurement theory, and ethical issues. They will also gain first-hand experience of survey analysis using applied techniques.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 647. Epidemiology Data Management & Analytics Lab** 2 Units

*Term Typically Offered: Spring Only*

*Prerequisite(s):* PHEP 602 or concurrently.

*Description:* Graduate student in public health services will learn to analyze epidemiologic data using the Epi info and SAS statistical packages for Windows.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 648. Data Management and Analysis for Epidemiology I** 1 Unit

*Prerequisite(s):* Enrollment in the School of Public Health and Information Sciences.

*Description:* Students learn how to capture, recode, transform, store, and retrieve epidemiologic data, and generate descriptive statistics, using Microsoft Access and Base Statistical Analysis System (SAS/BASE) for Windows.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 649. Data Management and Analysis for Epidemiology II** 1 Unit

*Prerequisite(s):* PHEP 648 and enrollment in the School of Public Health and Information Sciences.

*Description:* Public health science students learn how to analyze epidemiologic data using the statistical package of Statistical Analysis System (SAS/STAT) for Windows.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 650. Advanced Topics in Epidemiology** 1-3 Units

*Prerequisite(s):* Enrollment in the School of Public Health and Information Sciences.

*Description:* The purpose of this course is to provide an opportunity to address issues in Epidemiology not covered in the regularly offered curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 655. Emerging Issues in Epidemiology** 3 Units

*Prerequisite(s):* PHEP 501 and enrollment in the School of Public Health and Information Sciences.

*Description:* This course is an overview of emerging topics in epidemiology. Emphasis is on the role that practicing epidemiologists have played or are playing in current public health events.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 666. Masters Independent Study in Epidemiology and Population Health** 1-6 Units

*Term Typically Offered: Fall, Spring, Summer*

*Prerequisite(s):* Enrolled in the MS in Epidemiology or the MPH concentration in Epidemiology and Population Health.

*Description:* Course allows masters students to pursue advanced study with faculty guidance on a topic related to epidemiology and population health.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**PHEP 701. Advanced Epidemiologic Methods** 3 Units

*Prerequisite(s):* Enrollment in the MS program in Epidemiology or the Public Health Sciences PhD program with specialization in Epidemiology.

*Description:* This course covers advanced statistical methods used in epidemiologic research including: multivariable logistic regression, Cox Proportional Hazards, multivariate analysis, meta-analysis, longitudinal data analysis, and structural equation models.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHEP 702. Epidemiologic Research Management 3 Units
Prerequisite(s): Enrollment in the Public Health Sciences PhD program with specialization in Epidemiology.
Description: This course provides a comprehensive introduction to the practical methods necessary for conducting epidemiologic research including study design, regulations, databases, sampling, recruitment and tracking, instrument design, and data quality control.

For class offerings for a specific term, refer to the Schedule of Classes.

PHEP 703. Computational Epidemiology 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): PHEP 621, PHEP 623, PHEP 618, and PHEP 701; Instructor permission is required for MS Epidemiology students.
Description: This course provides an intensive review of common and statistical and machine learning techniques used in computational epidemiology with hands-on application to existing or simulated datasets under a variety of study designs.

For class offerings for a specific term, refer to the Schedule of Classes.

PHEP 750. Seminars in Epidemiology 3 Units
Prerequisite(s): Enrollment in the Public Health Sciences PhD program with specialization in Epidemiology.
Description: Doctoral students engage with faculty as junior-peers to develop skills such as research proposal writing, grant budgeting, peer review, manuscript preparation, oral and poster presentation.

For class offerings for a specific term, refer to the Schedule of Classes.

PHEP 777. Dissertation Research 3 Units
Prerequisite(s): Completion of Doctoral Qualifying Examination for Public Health Sciences PhD program with specialization in Epidemiology.
Description: This course is for mentored dissertation research in the PhD Program in Epidemiology.

For class offerings for a specific term, refer to the Schedule of Classes.

PHEP 778. Doctoral Independent Study in Epidemiology and Population Health 1-6 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Enrollment in the PhD program in Public Health Sciences with specialization in Epidemiology.
Description: Course allows doctoral students to pursue advanced study with faculty guidance on a topic related to epidemiology and population health.

For class offerings for a specific term, refer to the Schedule of Classes.

Public Health - Biostatistics (PHST)

PHST 500. Introduction to Biostatistics for Health Sciences I 3 Units
Prerequisite(s): Enrolled as a student in the PH MPH, MSc or Certificate in Clinical Investigation Sciences program.
Description: This course is a graduate level introduction to descriptive and inferential statistical methods including confidence intervals and hypothesis tests for 1- and 2-samples, power and sample size calculation, one-way analysis of variance, and simple linear regression. Requisite background material on basic probability, distributions, and sampling is covered. A statistical software package will be used to execute the descriptive, graphical, and inferential statistical techniques on real data sets.

For class offerings for a specific term, refer to the Schedule of Classes.

PHST 501. Introduction to Biostatistics for Health Sciences II 3 Units
Prerequisite(s): PHST 500 and enrolled in the PH MPH, MSc or Certificate in Clinical Investigation Sciences program.
Description: This course is a continued graduate level introduction to inferential statistical methods, covering multi-way analysis of variance, multiple regression, the chi-square analysis of frequencies and logistic regression, survival analysis, and nonparametric statistical methods. A statistical software package will be used to execute the descriptive, graphical, and inferential statistical techniques on real data sets.

For class offerings for a specific term, refer to the Schedule of Classes.

PHST 602. Biostatistics Seminar 1 Unit
Prerequisite(s): Enrolled in the PhD or MS in Biostatistics, PH MPH, Math major in Graduate School.
Description: Weekly seminar series for MS and PhD Biostatistics students. Students will hear speakers present their current research in bioinformatics and biostatistics and report on the work.

For class offerings for a specific term, refer to the Schedule of Classes.

PHST 603. Biostatistics Public Health Practicum I 1-2 Units
Prerequisite(s): Enrolled in MS in Biostatistics, PH MPH or Math major in Graduate School.
Description: Practical experience in biostatistical collaboration at the Master’s level, in which a student works with one or more investigators in the health sciences. Students typically engage in the statistical analysis of investigator data sets and are required to generate and present a report to the collaborating investigators.

For class offerings for a specific term, refer to the Schedule of Classes.

PHST 604. Biostatistics 1-2 Units
Prerequisite(s): PHST 603; Enrolled as a student in the MS in Biostatistics, PH MPH, or Math major in Graduate School.
Description: Practical experience in biostatistical collaboration at the Master’s level, in which a student works with one or more investigators in the health sciences. Students typically engage in the statistical analysis of investigator data sets and are required to generate and present a report to the collaborating investigators.

For class offerings for a specific term, refer to the Schedule of Classes.
PHST 620. Introduction to Statistical Computing 3 Units
Prerequisite(s): Enrolled in MPH program and PHST 500.
Description: This course provides an introduction to SAS. It will give students an overview of the SAS system under MS Windows and provide fundamental grounding in the environment for accessing, structuring, formatting and manipulating data. Students will learn how to summarize and display data, and the inference between data steps and procedures to get information out of data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 624. Clinical Trials I: Planning and Design 2 Units
Prerequisite(s): Enrolled in the MS in Biostatistics or the MSc or Certificate in Clinical Investigation Sciences.
Description: Phases of Trials, Ethical Issues, Basic Design, Inclusion and Exclusion criteria, Randomization and Blinding, Sample Size, Monitoring Response Variables, and Issues in Data Analysis
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 625. Clinical Trials II 2 Units
Prerequisite(s): PHST 624 and enrolled in the MS in Biostatistics or the MSc or Certificate in Clinical Investigation Sciences.
Description: Sample Size and Power Analysis, Survival Analysis, Sequential Design, Meta Analysis, Reporting and Interpreting of Results, Multicenter Trials. SPSS will be used.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 631. Data Collection for Clinical Research 2 Units
Prerequisite(s): PHST 500 (or equivalent) completed or concurrent.
Description: Identification and selection or design and analysis of instruments for collecting data used in clinical research. Includes psychometric properties of data collected. REDCap and SPSS will be used extensively.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 640. Statistical Methods for Research Design in Health Sciences 3 Units
Prerequisite(s): Enrolled MPH program and PHST 500.
Description: Statistical methods for clinical research and interpretation of the literature.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 645. Health Sciences Data Collection Instrumentation 3 Units
Prerequisite(s): PHST 500.
Description: This course covers the identification and selection or design and analysis of instruments for collecting data used in health sciences research and evaluation. Psychometric/biometric properties of data collected using instruments are addressed extensively. Epi info 7 will be used to develop data collection instruments and SPSS will be used for data management and analysis. This will be taught as a hybrid course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 650. Advanced Topics in Biostatistics 1-3 Units
Prerequisite(s): Enrolled in MS in Biostatistics and permission from the instructor.
Description: A treatment of one or more topics in advanced biostatistics not usually covered in a regularly offered course.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 655. Basic Statistical Methods for Bioinformatics 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHST 681 and enrolled in graduate studies in the School of Public and Information Sciences.
Description: This course provides an introduction to some core topics in bioinformatics. Topics will include-pairwise and multiple sequence alignment algorithms; gene expression profiling using microarrays; introduction to next generation sequencing; analyzing RNA-Seq data and phylogenetics. Students are expected to be familiar with some elementary statistics and probability concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 660. Mathematical Tools 4 Units
Prerequisite(s): Enrolled in MS in Biostatistics and MATH 190 or equivalent.
Description: This course focuses on the basic techniques of differential and integral calculus, and matrix algebra. Topics include the chain rule, higher-order derivatives, partial derivatives, improper integrals, multiple integrals, sequences and series, vector and matrix arithmetic, and eigenvalues.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 661. Probability 3 Units
Prerequisite(s): Enrolled in MS in Biostatistics or Math major in Graduate School.
Description: Introduction to probability theory. Topics include axioms of probability, conditional probability, discrete and continuous random variables, probability distributions and joint distributions, moments, moment generating functions, mathematical expectation, transformations of random variables, limit theorems (Law of Large Numbers and Central Limit Theory).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 662. Mathematical Statistics 3 Units
Prerequisite(s): PHST 661, enrolled in MS in Biostatistics, or Math major in Graduate School.
Description: A first course in statistical theory. Topics include limiting distributions, maximum likelihood estimation, least squares, sufficiency and completeness, confidence intervals, Bayesian estimation, Neyman-Pearson Lemma, uniformly most powerful tests, likelihood ratio tests and asymptotic distributions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHST 666. Master's Thesis Research 1-6 Units
Prerequisite(s): Enrolled in the MS in Biostatistics or Math major in Graduate School; accumulation of at least 18 hours of PHST credit hours.
Description: Mentored research; Thesis Preparation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 671. Special Topics in Biostatistics 1-3 Units
Prerequisite(s): Enrolled in the MS in Biostatistics or Math major in Graduate School.
Description: A treatment of one or more topics in advanced Biostatistics not usually covered in a regularly offered course. May be repeated under different subtitles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 675. Independent Study in Biostatistics 1-3 Units
Prerequisite(s): PHST 661 and enrolled in the MS in Biostatistics or Math major in Graduate School.
Description: Course allows students to pursue advanced study with faculty guidance on a topic related to biostatistics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 680. Biostatistical Methods I 3 Units
Prerequisite(s): PHST 501, enrolled in the MS Biostatistics, PH MPH, or Math major in Graduate School.
Description: A mathematically sophisticated presentation of statistical principles and methods. Topics include exploratory data analysis, graphical methods, point and interval estimation, hypothesis testing, and categorical data analysis Matrix algebra is required. Data sets drawn from biomedical and public health literature will be analyzed using statistical computer packages.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 681. Biostatistical Methods II 3 Units
Prerequisite(s): PHST 680, enrolled in the MS Biostatistics, PH MPH, or Math major in Graduate School.
Description: This course offers a mathematically sophisticated introduction to simple regression models and analysis of variance. Matrix algebra is required and data analysis will be illustrated drawing examples from biomedical and public health literature.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 682. Multivariate Statistical Analysis 3 Units
Prerequisite(s): PHST 681 and enrolled in the MS in Biostatistics or Math major in Graduate School.
Description: The topics covered in this course include the multivariate normal distribution, inference for mean vectors, inference for covariance and correlation matrices, analysis of covariance structure, analysis of serial measurements, factor analysis, and discriminant analysis. Statistical methods and models that are most useful in multivariate data analysis will be introduced. Instruction will also be given in the proper use of R to carry out these analyses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 683. Survival Analysis 3 Units
Prerequisite(s): PHST 681 and enrolled in the MS in Biostatistics or MPH program.
Description: Statistical methods for analyzing survival data. Parametric and nonparametric methods for complete and incomplete data, life-table, KM estimator, accelerated lifetime models, proportional hazard models, log-rank tests, and goodness-of-fit tests.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 684. Categorical Data Analysis 3 Units
Prerequisite(s): PHST 501 and enrolled in the MS Biostatistics or MPH program.
Description: Topics include inference for two-way contingency tables, models for binary response variables, log-linear models, models for ordinal data, multinomial response data, Poisson regression analysis and analysis of repeated categorical response data. Emphasis will be placed on methods and models most useful in biomedical and public health research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 691. Bayesian Inference and Decision 3 Units
Prerequisite(s): PHST 681 and enrolled in the PhD or MS in Biostatistics or Math major in Graduate School.
Description: Focuses on the use of Bayesian probability and statistics in both scientific inference and formal decision analysis. The frequency and subjective interpretations of probability are explored, as well as probability and decision making. The course will explore inference for both single-parameter, multiple-parameter, and hierarchical models. A significant amount of time will be devoted to Bayesian computational methods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 703. Biostatistical Consulting Practicum 1-3 Units
Prerequisite(s): Enrollment in the PhD in Biostatistics program and completion of PHST 710, PHST 762, PHST 781, and PHST 691.
Description: In depth practical experience in biostatistical collaboration at the doctoral level, in which a student works with one or more investigators in the health sciences. Students typically engage in the statistical analysis of investigator data sets and are required to generate and present a report to the collaborating investigators.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 704. Mixed Effect Models and Longitudinal Data Analysis 3 Units
Prerequisite(s): Enrollment in the PhD in Biostatistics program and PHST 781.
Description: The course focuses on theory and application of linear and nonlinear mixed effect models, particularly, the application of mixed models to longitudinal data analyses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHST 710. Advanced Statistical Computing I 3 Units
Prerequisite(s): Enrolled in the MS or PhD in Biostatistics and PHST 681.
Description: The intent of this course is to develop knowledge of a statistical programming language and computational methods that are essential to statistics. The course primarily focuses on the R programming language and covers a variety of programming topics related to R (vectorization, data I/O, object-oriented programming, and building R packages). Statistical and computational methods that are covered include visualization (basic and lattice graphics), data smoothing, optimization (Newton-Raphson and EM-algorithm), matrix factorization, simulation (inverse transform and acceptance-rejection methods, power and size of a test), numerical integration, resampling (bootstrap and permutation tests), and other modern statistical methods. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 711. Advanced Statistical Computing II 3 Units
Prerequisite(s): Enrolled in the MS or PhD in Biostatistics and PHST 710.
Description: This is a continuation of the statistical programming techniques, skills, and theory covered in PHST 710. The intent of this course is to further develop your ability to perform statistical programming. This includes carrying out computational tasks, interferring with diverse data types and formats, and writing functions to implement statistical methods. Potential topics include multivariate optimization, C++ programming in R, statistical learning methods, non-parametric smoothing, dimension reduction/variable selection, and Markov Chain Monte Carlo (MCMC) methods. Additionally, the course may cover computing concepts such as cross-validation/resampling, regular expressions, and computing on the R language.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 724. Advanced Clinical Trials 3 Units
Prerequisite(s): Enrolled in the PhD in Biostatistics and PHST 624 and PHST 681 or equivalent.
Description: Advanced statistical methods for design and analysis of clinical trials are explored. Content includes design and analysis of complex clinical studies, including phases I, II, and III clinical trials for dichotomous, normally distributed and time-to-event outcomes. SAS, R and EAST will be extensively used.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 725. Design of Experiments 3 Units
Prerequisite(s): Enrolled in the PhD in Biostatistics and PHST 681 or equivalent.
Description: The course introduces experimental design principles and covers specific designs in detail. Concepts will be illustrated using examples from the health services and engineering. SAS in R will be extensively used.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 750. Statistics for Bioinformatics 3 Units
Prerequisite(s): Enrolled in the PhD in Biostatistics and PHST 661.
Description: This course focuses on the statistical methods and computational tools for analyzing data generated from DNA and protein sequences, genetic maps, and polymorphic marker data. This course will review the basics of genetics/molecular biology and statistical inference and probability needed for analyzing DNA and protein sequences. Covered topics include introduction to stochastic processes, analysis and motif discovery within a single DNA/protein sequence, comparison and alignment of two or more DNA/protein sequences, the foundations of substitution matrices, the statistical underpinnings of BLAST, hidden Markov models, evolutionary models, and phylogenetic trees. This course is developed for individuals interested in pursuing research in computational biology, genomics, and bioinformatics. Students are expected to be familiar with some elementary statistics and probability concepts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 751. High-throughput Data Analysis 3 Units
Prerequisite(s): Enrolled in the PhD in Biostatistics and PHST 661.
Description: The array of high speed, high dimension and highly automated biotechnical equipment including next generation DNA sequencers (NGS), microarray, and metabolomics and proteomic analyzers (mass spectrometers) are all designed to capture and process vast amounts of biological data. All these data generation platforms require customized statistical analyses dealing with high dimensional data. In this course we will introduce the statistical methodologies needed to analyze the data generated by these high-throughput technologies. Covered statistical topics include modern methods for classification, dimension reduction/variable selection methods, and clustering. The course will also cover practical aspects of high-throughput data analysis including microarray data, NGS data, and proteomic mass-spectrometer data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 752. Statistical Genetics 3 Units
Prerequisite(s): Enrolled in the PhD in Biostatistics and PHST 681.
Description: This course covers the principles of Mendelian genetics, linkage analysis, association analysis, and quantitative trait models. The main goal is to provide the students a foundation of the statistical theory of inheritance and enough expertise to analyze and interpret genetic association studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 762. Advanced Statistical Inference 3 Units
Prerequisite(s): Enrolled in the PhD in Biostatistics and PHST 662.
Description: This course is a mathematically sophisticated introduction to the theory and methods of statistical inference, including point and interval estimation and hypotheses testing. Students will learn fundamental technical tools that are essential to carry out methodological research in the field of Biostatistics. Emphasis will be placed on how to correctly propose statistical methods with desirable properties in a general setting including asymptotic unbiasedness, robust variance estimation and efficiency.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHST 777. Dissertation Research  1-12 Units  
**Prerequisite(s):** Enrolled in the PhD in Biostatistics, satisfactory completion of PhD qualifying examination, and permission of dissertation director.  
**Description:** The PhD student may take a total of up to 24 hours credit for the planning, data collection, analysis, and writing of the research project that results in the doctoral dissertation. PHST 777 must be taken under the direction of the student’s major professor. Dissertation research hours are seen as a major component of the doctoral program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 780. Advanced Nonparametrics  3 Units  
**Prerequisite(s):** Enrolled in the PhD in Biostatistics and PHST 662.  
**Description:** This course is a mathematically advanced introduction to theory and methods of nonparametric statistics. The first part of the course covers topics including theory of distribution-free statistics based on ranking, U-statistics, Kolmogorov-Smirnov one-sample statistics, Chi-square goodness-of-fit test, asymptotic relative efficiency. The second part of the course covers nonparametric density and regression estimation based on kernel, splines, local polynomial and wavelet methods.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 781. Advanced Linear Models  3 Units  
**Prerequisite(s):** Enrolled in the PhD in Biostatistics and PHST 662.  
**Description:** An introduction to the theory of linear models, with an emphasis on health sciences applications. Topics include projections, distributions of quadratic forms under normality, estimation procedures, general linear hypotheses, estimating and testing linear parametric functions, simultaneous inference, multifactor ANOVA models, and covariance.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 782. Generalized Linear Models  3 Units  
**Prerequisite(s):** Enrolled in the PhD in Biostatistics and PHST 781.  
**Description:** The course covers the advanced statistical methods and inferences based on the exponential family of distributions, with linear model, logistic regression model, and log-linear as its special cases. Generalized estimating equations for correlated responses are also covered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 783. Advanced Survival Analysis  3 Units  
**Prerequisite(s):** Enrolled in the PhD in Biostatistics; PHST 662 and PHST 683.  
**Description:** This course is a mathematically advanced introduction to the theory and methods of survival analysis. It offers an in-depth analysis of parametric and non-parametric models for general event-time data. It also provides a brief overview of complex models like multi-state models and competing risks.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHST 785. Nonlinear Regression  3 Units  
**Prerequisite(s):** Enrolled in the PhD in Biostatistics and PHST 781.  
**Description:** The course covers advanced statistical methods for nonlinear regressions. Linear models, generalized linear models, and least squares estimates will be reviewed. The least squares estimates, algorithm for obtaining the estimates, statistical inferences, and model diagnostic tests for nonlinear regression models will be covered.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Public Health - Health Promotion & Behavioral Sci (PHPB)**

PHPB 501. Introduction to Public Health Behavior  3 Units  
**Term Typically Offered:** Fall Only  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences.  
**Description:** This course reviews theoretical constructs of the causation of health-related behavior, including preventive, early diagnosis, treatment and rehabilitative behavior.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 604. Health Decision and Risk Analysis  3 Units  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences.  
**Description:** This course is a study of how patients, practitioners, researchers, educators and policy makers understand risk and approach complex decisions problems in health.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 611. Community Organization and Assessment  3 Units  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences.  
**Description:** Students in this course apply the knowledge, skills, and methods for conducting community health assessments to identify factors that affect the health of a population and utilize the assessment process as a tool for community organizing. This course reviews the goals of population health and the role of community in facilitating health improvement. It also introduces students to the theory and practice of community assessment in public health. Students will gain a practical understanding of what is involved in the assessment process, the time and resources necessary to undertake an assessment, and sufficient integration of the results into planning and commissioning of local services.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 612. Health Communications Campaigns: Theory and Practice  3 Units  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences.  
**Description:** This course will review principles and concepts of health communication campaigns, both from the patient/consumer side and the practitioner side.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHPB 614. Critical Thinking, Programming Planning, and Implementation 3 Units

Term Typically Offered: Fall Only
Prerequisite(s): Admission to graduate study in the School of Public Health and Information Sciences.
Description: The course establishes basic skills for public health program planning and implementation. Students develop critical thinking skills regarding purpose, procedures, terminology, and specific techniques, in program planning and implementation and links to evaluation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 615. Advanced Program Evaluation 3 Units

Term Typically Offered: Fall Only
Prerequisite(s): Completion of MPH Year 1 program requirements.
Description: This course presents advanced concepts in program evaluation and builds on Year 1 evaluation course, Critical Thinking and Program Evaluation. Students who enroll in this seminar oriented course will complete a program evaluation project and apply program theory, principles and methods in program evaluation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 620. Emerging Infectious Diseases: Impacts and Control 3 Units
Prerequisite(s): PHEH 525.
Description: This course will provide an overview of the public health threats posed by emerging infectious diseases and consider options for mitigating the risks they pose. The most important new and re-emerging pathogenic organisms from the past century will be discussed in detail. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 630. Social Determinants of Health 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrolled in the MPH program in the School of Public Health and Information Sciences.
Description: The purpose of this course is to provide an introduction to social factors that impact health. Theories and evidence supporting multiple underlying determinants of health in populations are presented. This course will explore how social influences such as socioeconomic status, environment, policy, gender, race, sexual orientation, and neighborhood quality affect population health. This course will study intervention approaches to improve population health outcomes. This course examines structural factors that impact population health in the US as well as structural interventions to address health inequities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 635. Health Promotion Policy Development and Advocacy 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrolled in graduate studies in the School of Public Health and Information Sciences.
Description: This seminar and lab-structured course will provide a review of social justice as a foundation of public health and the core principles of Health in All Policies (HiAP) as a mechanism to achieve health equity. Students will also have the opportunity to learn by doing field-based research with Louisville Metro government to help drive change in current issues within the local setting. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 640. Public Health Planning, Implementing and Evaluating 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrolled in graduate studies in the School of Public Health and Information Sciences.
Description: Public Health interventions are traditionally organized by community assessment, leading to objectives and program implementation, followed by evaluation of the results of the intervention. This course will present the components of that planning cycle, providing students with basic competencies in organizing public health programming. There will be intentional applications to global settings.
Note: This course is specifically designed for students in the MPH Global Health concentration.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 650. Advanced Topics in Health Promotion and Behavioral Sciences 1-3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: An in-depth treatment of one or more advanced topics in health promotion and behavioral sciences, designed to advance the student's understanding in the field and not covered in other courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 701. Theoretical Basis of Health Promotion 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: Explores historical developments in the health promotion, current state of the health promotion discipline and main emphases are PRECEDE/PROCEED and other planning models, and research issues for the future.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHPB 702. Health Care Law and Politics 3 Units
Prerequisite(s): Doctoral Student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: Course includes history, methods, results, and evaluation of health care related policy and politics. Major foci and course coverage include government health policy formulation, implementation, and evaluation. The course should enhance sensitivity, not only to people needing health care, but also for the contributions, problems, and limitations of the disciplines and professions that manage medical care. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 703. Health Promotion Research Methods and Design 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: Behavioral sciences, such as health promotion are dependent on rigorous studies carried out by well-trained researchers. In this course, we will explore the commonly used research designs. Students will learn how the validity of information and data gathered is limited by, among other factors, the research methods chosen, the carefulness and attentiveness of the researcher, the willingness of the participant, and the selection of statistical analyses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 704. Psycho-Social Foundations of Health Decision Making 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: This course is a study of the psychological and social factors that influence health-related judgement and decision making. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 705. Community Organizing and Health Policy Advocacy 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: This seminar-structured course provides a review of the extent and nature of community health problems requiring community-based solutions, as opposed to solutions for individuals. Included in the course will be concepts of community organizing, empowerment and processes of policy advocacy and formation. The course will develop practitioner competencies as well as an agenda for addressing the problem. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 710. Community Based Participatory Research 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: This course presents concepts and approaches in community-based participatory research. Students will complete a needs assessment and design a project applying theory, principles, and methods in participatory research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 711. Qualitative Research Methods in Public Health 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: This course presents theories and methods in qualitative research design and inquiry. Students will apply qualitative data collection, coding, and analysis skills to public health problems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 722. Health Risk Communication 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: This course presents the principles and theories of health risk communication and promotes an understanding of the psychological responses to risk and risk messages. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 724. Dissertation Methods Seminar 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: The course is an interactive seminar on the processes and strategies of dissertation research and writing, usually taken in the semester prior to sitting for the candidacy qualifying exam. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPB 727. Culture and Public Health 3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: This course focuses on U.S. and international perspectives on culture and health and intercultural communication, with opportunities for building cultural competency skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHPB 753. Independent Study in Health Promotion and Behavioral Sciences 1-3 Units
Prerequisite(s): Doctoral student in the School of Public Health and Information Sciences PhD in Public Health Sciences, Health Promotion Specialization program.
Description: Provides students an opportunity to develop a research project or investigation of a health promotion and behavioral health topic under the supervision of a faculty mentor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health - Environmental Health (PHEH)

PHEH 500. Introduction to Environmental and Occupational Health Sciences 2 Units
Prerequisite(s): Enrollment in School of Public Health and Information Sciences.
Description: This course provides students with the basic concepts and principles of environmental health and occupational health including environmental agents in water, air and soil, such as chemicals, biological and physical agents, and other important factors that may constitute a risk to humans. It also provides an overview of the basic principles and methods of risk assessment and risk management. This course is designed for all public health practitioners and meets the core environmental health requirement for the MPH degree program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 525. Biological Basis for Parasitic and Infectious Diseases 1 Unit
Prerequisite(s): PHEH 500 (or concurrently).
Description: This course will provide an overview of key biological concepts related to the pathogenic responses of humans to infectious and parasitic agents. The central questions addressed by the course include: What strategies are used by different types of pathogens to interact with host cells and what physical/cellular barriers impact host infectious/parasite interactions; and how do host cells/organisms respond to different types of pathogens through innate and adaptive immune responses to infectious/parasitic diseases.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 526. Nutrition and Maternal and Child Health 3 Units
Term Typically Offered: Spring Only
Description: This course covers the scientific foundations of human nutrition and digestion, methodologies for nutritional assessment in at-risk populations, and the impact of food scarcity/nutritional inadequacy on maternal/child.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 527. Global Issues in Environmental and Occupational Health 3 Units
Prerequisite(s): PHEH 500 and PHEP 501 (or equivalent courses); student must also be enrolled in the School of Public Health and Information Sciences.
Description: This course will focus on the nature, impact and determinants of health problems among disadvantaged populations in developing countries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 528. Introduction to Quantitative Risk Assessment 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course will introduce students to the nomenclature, concepts, and basic skills of quantitative environmental risk assessment (QRA). The goal is to provide an understanding necessary to read and critically evaluate QRA. Emphasis is on the intellectual and conceptual basis of risk assessment, particularly its dependence on toxicology and epidemiology, rather than its mathematical constructs and statistical models. Specific cases consider the use of risk assessment for setting environmental exposure limits and quantifying the hazards of environmental exposures to chemicals in air and drinking water.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 530. Advanced Topics in Environmental and Occupational Health 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course will build upon principles acquired in the introductory course by presenting advanced concepts on environmental and occupational health as novel factors that may constitute a risk to humans in developed and industrialized countries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 610. Occupational Health and Safety 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course will focus on the prevention of work-related injuries and illnesses as well as the management and control of work place hazards. Information on the identification of workplace hazards, governmental regulations and issues pertaining to specific industries, and safety management programs will also be presented. The course will also include discussion of principles of ergonomics, including the role of job design in maximizing productivity and injury prevention.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 620. Global Issues in Environmental and Occupational Health 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course will focus on the nature, impact and determinants of health problems among disadvantaged populations in developing countries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 640. Environmental Risk Assessment 3 Units
Prerequisite(s): PHEH 500 and PHEP 501 (or equivalent courses); student must also be enrolled in the School of Public Health and Information Sciences.
Description: This course introduces students to the nomenclature, concepts, and basic skills of quantitative environmental risk assessment (QRA). The goal is to provide an understanding necessary to read and critically evaluate QRA. Emphasis is on the intellectual and conceptual basis of risk assessment, particularly its dependence on toxicology and epidemiology, rather than its mathematical constructs and statistical models. Specific cases consider the use of risk assessment for setting environmental exposure limits and quantifying the hazards of environmental exposures to chemicals in air and drinking water.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 650. Advanced Topics in Environmental and Occupational Health 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course will build upon principles acquired in the introductory course by presenting advanced concepts on environmental and occupational health as novel factors that may constitute a risk to humans in developed and industrialized countries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHEH 651. Advanced Environmental Health Services 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course is an in-depth examination of current topics in environmental health issues and practice and builds on principles presented in the prerequisite introductory course. Current topics within the broad category of environmental health will be explored with emphasis on environmental toxicology and nutrition. Specific topics include introduction to toxicological concepts, pulmonary toxicology, air pollution, susceptible populations, biosafety, public health nutrition including malnutrition and the environmental impact of agriculture. The course includes a traditional lecture format as well as in-class and online discussion groups for selected topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 750. Seminar 1 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Enrollment in PhD in Public Health Sciences, Environmental Health Specialization Program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop an NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 751. Seminar 2 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): PHEH 750 and enrollment in PhD in Public Health Sciences, Environmental Health Specialization program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop an NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 752. Seminar 3 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): PHEH 750, PHEH 751, and enrollment in PhD in Public Health Sciences, Environmental Health Specialization program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop a NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 753. Independent Study in Environmental and Occupational Health 1-6 Units
Prerequisite(s): Enrollment in the PhD program in Public Health Sciences, Environmental Health Specialization in the School of Public Health and Information Sciences.
Description: This course provides students with the opportunity to develop a research project or investigation of an environmental or occupational health topic under the supervision of a faculty mentor. The student identifies an academic advisor and develops a proposal that includes a detailed syllabus with methods to evaluate the proposed work and criteria for assigning a grade. Both student and advisor sign documents describing their respective duties, and the proposed study is to be completed within 90 days after approval of the proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 754. Seminar 4 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): PHEH 750, PHEH 751, PHEH 752 and enrollment in PhD in Public Health Sciences, Environmental Health Specialization program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop a NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health, Management Systems Sciences (PHMS)

PHMS 501. Introduction to Public Health Practice and Administration 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrolled in the School of Public Health and Information Sciences.
Description: This course emphasizes the practical application of the principles of health care organizations to public health at the national, state and local levels.
Note: Taught only at the graduate level.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHMS 530. Comparative Health Systems 3 Units
Term Typically Offered: Spring Only
Description: This course examines health delivery and public health systems from a global perspective. The course focuses on teaching students to describe elements of these systems, the environment in which the systems exist, and the internal and external forces through which systems change. Although the structure of different health systems varies, most also have substantial similarities especially in the areas of improving access and quality, while minimizing costs. The course focuses on health systems, using examples of health systems in different countries to demonstrate system similarities and differences. The course will provide a framework for analyzing different models of organizing health care and public health in settings around the world. The course will engage students in examining health systems outside the United States, focusing specifically on how a country's history, geography, government, and economy influence the delivery of health services. Students will apply these skills in a semester-long group project involving the analysis of a selected country's health system, its performance factors affecting performance and structure, and opportunities for reform.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 603. Legal and Bioethical Aspects of Public Health 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This introductory course will focus on the legal and bioethical principles and constraints that are applicable to public health services and public health professionals.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 605. Governance and Management of Healthcare Organizations 3 Units
Term Typically Offered: Fall Only
Description: This course seeks to provide the student with an understanding of organizations and leadership from dominant ways of thinking about them to ways informed by a complexity perspective. Course participants will read about and discuss a broad range of perspectives about what constitutes an organization and leadership of it. Particular attention will be given to the organizational experiences of the student and the class.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 609. Health Finance and Financial Management 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course is designed to provide an overview of health finance and financial management, including context of health finance and the approaches and processes involved in managing the health enterprise.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 610. Health Policy & Analysis 3 Units
Term Typically Offered: Spring Only
Description: This course is designed to introduce students to key concepts and issues surrounding the adoption and use of information systems and the quality assessment processes within health care organizations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 612. Quality Assessment and Information Management 3 Units
Term Typically Offered: Spring Only
Description: This course seeks to provide the student with an ecological perspective. The course covers historical, socioeconomic, political and environmental forces influencing the organization, financing and delivery of personal and public health services.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 615. Introduction to Health Systems 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrollment in the MPH concentration in Population Health Management or the MS in Health Administration in the School of Public Health and Information Sciences.
Description: This course offers an introduction to strategic management within contemporary healthcare organizations and markets. Lectures and assignments will focus on various topics including organizational strategy formulation, implementation, and evaluation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 620. Healthcare Strategic Management 2 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrollment in the MPH concentration in Population Health Management or the MS in Health Administration in the School of Public Health and Information Sciences.
Description: This course offers an introduction to strategic management within contemporary healthcare organizations and markets. Lectures and assignments will focus on various topics including organizational strategy formulation, implementation, and evaluation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 625. Population Health Management 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): Enrollment in the MPH concentration in Population Health Management or the MS in Health Administration in the School of Public Health and Information Sciences.
Description: This course seeks to provide the student with an understanding of organizations and leadership from dominant ways of thinking about them to ways informed by a complexity perspective. Course participants will read about and discuss a broad range of perspectives about what constitutes an organization and leadership of it. Particular attention will be given to the organizational experiences of the student and the class.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHMS 630. Human Resource Management in the Public Health Sector 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: The purpose of this course is to provide the master's degree/PhD student in public health and health care fields an overview of Human Resources Management. This will include looking at the framework of human resources management in various settings; planning and developing a competent workforce in various settings; and practice in techniques for training, mentoring and evaluating employees as well as a range of disciplinary actions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 635. Health Law and Ethics 3 Units
Prerequisite(s): PHMS 501, PHST 501, PHEP 501, PHPB 501, and PHEH 500.
Description: This course provides an overview of major contemporary legal and ethical issues related to administrative decision making in health care and population health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 641. Data Mining I 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: The course is first in a two semester sequence graduate level introduction to data mining/big data analytics. It focuses on practical implementation and interpretation of the most commonly used techniques in analysis of very large datasets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 642. Data Mining II 3 Units
Prerequisite(s): PHMS 641.
Description: This is the second of a two semester graduate level course on data mining/big data analytics. It focuses on practical implementation and interpretation of the most commonly used techniques in analysis of very large datasets.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 643. Data Management in Health Service Research 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: Course allows students to pursue study with faculty guidance on data management in health service research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 645. Health Services Research Methods I 3 Units
Prerequisite(s): PHST 501.
Description: The course is designed to introduce students to quantitative techniques and considerations appropriate for observational studies in Health Services Research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 646. Health Services Research Methods II 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): PHMS 645 and PHST 501.
Description: This course is designed to prepare students to answer and critically examine questions regarding casual inference in Health Services and Health Policy Research as well as other research settings using observational data.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 650. Advanced Topics in Health Management and Systems Science 3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: This course will usually focus on one topic in advanced health management and systems sciences, not usually covered in a regularly offered course (or if offered in a regularly offered course, not covered in depth).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 655. Systems Thinking and Dynamic Modeling in Public Health 3 Units
Description: The course will give students basic skills for applying the tools of system dynamics for a broad range of public health problems that involve biological, environmental, social and behavioral factors.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 662. Health Economics 3 Units
Description: The course uses principles of microeconomic analysis to study health care systems: demand for medical services; role of health insurance; productivity/cost measurement; labor markets and competition.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 680. Health Management Leadership Seminar 1 Unit
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: The course bridges MPH concentration in Population Health Management coursework and the world of practice with a focus on developing career planning and professional skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 681. Population Health Quantitative Methods 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Enrolled in the MS in Health Administration program in the School of Public Health and Information Sciences.
Description: The goal of the course is to build quantitative analysis foundations for students in health management emphasizing decision-making using health data. The course provides an overview of basic quantitative analysis techniques, and discusses a variety of quantitative analysis tools.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 682</td>
<td>Population Health Information Management</td>
<td>3</td>
<td>Fall Only</td>
<td></td>
<td>This course is designed to introduce students to key concepts and issues surrounding the adoption and use of information systems for population health management. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 683</td>
<td>Healthcare Quality Management</td>
<td>3</td>
<td>Fall, Summer</td>
<td></td>
<td>This course is designed to introduce students to key concepts and issues surrounding the adoption and use of information systems and the use of quality assessment processes within health care organizations. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 684</td>
<td>Project Management for Population Health</td>
<td>2</td>
<td>Fall Only</td>
<td></td>
<td>This course is designed to introduce students to key concepts and methodologies involved in managing projects and the use of specific project management tools and processes within health care organizations. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 686</td>
<td>MSHA Practicum</td>
<td>1-3</td>
<td>Fall, Spring, Summer</td>
<td>Enroll in the Masters of Science in Health Administration program.</td>
<td>The MSHA practicum documents students’ mid-program administrative experience in a healthcare setting. The practice experience occurs in a carefully selected healthcare organization approved by the MSHA Director. In almost all instances, the MSHA Director supervises the Internship in tandem with a qualified preceptor at the practicum site. Our goal is that the preceptor serves as a mentor for the student. The course may be repeated up to 3 times for a maximum of 3 hours. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 687</td>
<td>Managerial Accounting for Healthcare Managers</td>
<td>3</td>
<td>Fall Only</td>
<td>PHMS 609.</td>
<td>This course provides an overview of the principles and processes of managerial accounting and organizational finance within the healthcare marketplace. Lectures, assignments, and case studies will focus on various topics including financial statement analysis, costing, pricing, planning, budgeting, and financial risk analysis. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 688</td>
<td>Healthcare Marketing</td>
<td>2</td>
<td>Fall Only</td>
<td>PHMS 620.</td>
<td>This course offers an introduction to marketing and marketing strategy within the healthcare system. Lectures and assignments will focus on various topics including strategy formulation, environmental analysis, and market assessment. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 689</td>
<td>Insurance &amp; Alternative Payment Models</td>
<td>2</td>
<td>Spring, Summer</td>
<td></td>
<td>This course is designed to provide students an analysis of the U.S. health insurance and payment system. Specific topics include health plan types and characteristics, population health alternative financing models, premium setting, and reimbursement of health providers. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 700</td>
<td>Introduction to Health Services Research</td>
<td>3</td>
<td>Fall Only, Spring, Summer</td>
<td></td>
<td>This course is designed to introduce students to research that addresses the inherent tradeoffs among cost, quality, and access to care as it pertains to the effectiveness, efficiency, and equity of public health and personal health services. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 703</td>
<td>Evolutionary Forces in Public Health</td>
<td>3</td>
<td>Fall Only, Spring, Summer</td>
<td>Enroll in the School of Public Health and Information Sciences PhD in Health Sciences program.</td>
<td>This seminar is designed to orient first-semester PhD students to the field of Public Health. It will touch on a broad range of topics that encompass the knowledge base and skill set that students need for a comprehensive understanding of issues facing the Public Health field today. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>PHMS 704</td>
<td>Health Impact Assessment</td>
<td>3</td>
<td>Fall Only</td>
<td></td>
<td>This course offers an introduction to marketing and marketing strategy within the healthcare system. Lectures and assignments will focus on various topics including strategy formulation, environmental analysis, and market assessment. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
</tbody>
</table>
PHMS 708. Population Health and Health Disparities 3 Units  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences PhD in Health Sciences program.  
**Description:** This course examines the social determinants of health within the context of population health, including conceptual models and policy approaches that are designed to lesson the negative impact of health disparities that are attributed to these factors, and to improve the health-related quality of life (HRQL) assessments among community residents and their families, peers and social groups.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 710. Advanced Health Policy and Analysis 3 Units  
**Term Typically Offered:** Spring Only  
**Description:** This course is designed to introduce students to health policy, mechanisms through which policy is made at the state and federal level, and strategies for health policy analysis.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 715. Health Policy Research 3 Units  
**Description:** This course is designed to introduce students to research that aims to inform public policy and health organizations decisions related to the effectiveness, efficiency, and equity of public health, population health, and personal health services.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 720. Organizational Theory in Health Services Research 3 Units  
**Term Typically Offered:** Spring Only  
**Description:** The purpose of this course is to provide the health management doctoral student with a rigorous set of theoretical tools that they can use to examine and investigate how health organizations function.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 725. Economic Evaluation in Health Care 3 Units  
**Term Typically Offered:** Fall Only  
**Description:** Principles, models and practical methods for the economic evaluation of health care services with an emphasis on medical devices.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 740. Microeconomic Theory 3 Units  
**Term Typically Offered:** Spring Only  
**Description:** This course is designed to introduce HMSS policy research doctoral students to the core principles of microeconomic theory, specifically as it relates to health policy-making and health care delivery.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 751. Seminar I in Public Health Management 1 Unit  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences PhD in Public Health Sciences program with specialization in Health Management and Policy.  
**Description:** Doctoral students engage faculty to discuss and review significant literature related to major influential factors impacting the context of doctoral careers in public health management and to develop a final paper on a topic related to specific aspects of the profession, research, and the creation of new knowledge within public health management. Students will also develop effective oral presentations of these topics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 752. Seminar 2 in Public Health Management 1 Unit  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences PhD in Public Health Sciences program with specialization in Health Management and Policy.  
**Description:** Doctoral students engage faculty to discuss and review significant literature related to major influential factors impacting the context of doctoral careers in public health management and to develop a final paper on a topic related to specific aspects of the profession, research, and the creation of new knowledge within public health management. Students will also develop effective oral presentations of these topics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 753. Seminar 3 in Public Health Management 1 Unit  
**Prerequisite(s):** Enrollment in the School of Public Health and Information Sciences PhD in Public Health Sciences program with specialization in Health Management and Policy.  
**Description:** Doctoral students engage faculty to discuss and review significant literature related to major influential factors impacting the context of doctoral careers in public health management and to develop a final paper on a topic related to specific aspects of the profession, research, and the creation of new knowledge within public health management. Students will also develop effective oral presentations of these topics.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

PHMS 755. Independent Study in Health Management and System Sciences 1-3 Units  
**Prerequisite(s):** Graduate standing in the School of Public Health and Information Sciences.  
**Description:** Course allows students to pursue advanced study with faculty guidance on a topic related to health management and system sciences.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHMS 761. Public Health and the Built Environment 3 Units
Prerequisite(s): Graduate standing in the School of Public Health and Information Sciences or PhD student in Urban and Public Affairs.
Description: This seminar examines the relationship between the built environment and public health, covering a broad range of topics for students to gain a thorough understanding of the relationship.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHMS 777. Dissertation Research in Health Management and Systems Sciences 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Enrollment in The School of Public Health and Information Sciences PhD in Public Health Sciences program with a specialization in Health Management and Policy.
Description: This course is designed as a capstone for PhD students in the Public Health Sciences program with a specialization in Health Management and will touch on a broad range of core areas that comprise the Health Management PhD curriculum. The course, as well as being used for preparation for the qualifying exam, will focus on introducing students to dissertation research planning.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Public Health - Public Health (PHPH)

PHPH 523. Public Health in the United States 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: Course covers the history of and issues facing public health in the United States.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 550. Special Topics in Public Health Sciences 1-3 Units
Prerequisite(s): Enrollment in the School of Public Health and Information Sciences.
Description: In-depth exploration of public health sciences topics to advance students' knowledge in aspects of field not covered at some depth in existing courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 601. Evaluating Health Care Literature 1 Unit
Prerequisite(s): Enrollment in the MS in Biostatistics program or the MSc or Certificate in Clinical Investigation Sciences program.
Description: A review of formal methods for evaluating the medical literature including those of the University of Rochester Clinical Pharmacology Group; and the Evidence Based-Medicine Group. Meta-Analysis: sources of information, using medical informatics, selection of trails, pooling of data, analyzing pooled data and interpreting results, problems and limitations of meta analysis will be covered.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 610. New Drug & Device Development 2 Units
Prerequisite(s): Enrolled in the MS in Biostatistics program or the MSc or Certificate in Clinical Investigation Sciences program.
Description: This course introduces the rationale for, practical aspects of, and new issues in drug and device development as well as the relevant industry and government policies and regulations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 630. Geographic Information Systems in Public Health 3 Units
Prerequisite(s): Enrolled in the School of Public Health and Information Sciences.
Description: This course provides public health students with "hands-on" GIS experience, using Environmental Systems Research Institute's (ESRI’s) ArcGIS software and other software packages. Topics covered include an introduction to geographic information systems, management and use of health, census and spatial data, mapping health information, spatial clustering of health events, analysis of environmental hazards, risk and spread of infectious and vector-borne diseases, and location of health services and access to care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 632. Ethical Conduct of Health Care Research 2 Units
Prerequisite(s): Enrolled in the MS in Biostatistics program or the MSc or Certificate in Clinical Investigation Sciences program.
Description: This course focuses on key aspects of research ethics, such as codes of ethical conduct, federal regulations, and institutional review boards. Key principles explored include informed consent, privacy, and conflicts of interest. The course also considers special populations, such as cognitively impaired individuals and children; and specialized forms of research, such as genetic research and research utilizing repositories of stored tissue.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 655. Independent Study in Clinical Research 1-3 Units
Prerequisite(s): Enrolled in the MSc or Certificate in Clinical Investigation Sciences program.
Description: Course allows students to pursue advanced study with faculty guidance on a topic related to clinical research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 679. Public Health Practicum Experience 1-3 Units
Prerequisite(s): Enrollment in the Masters of Public Health program and completion of Year 1 requirements, HIPAA and CITI training certificates on file.
Description: Required field experience for Masters of Public Health degree (total of 3 hours). The practicum experience is designed to bridge the gap between academia and public health practice by providing field experience at a public health worksite. Each MPH student identifies a practice site, develops a learning agreement in consultation with the practice site mentor and faculty mentor, works at the site to address the components of the learning agreement and to gain experience within the organization, prepares a written characterization of the practice site, and prepares written and oral reports describing the practicum experience.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHPH 696. Issues in Public Health 2 Units
Prerequisite(s): Enrolled in the School of Public Health and Information Sciences.
Description: This course provides students with several broad topical concepts encountered within the field of public health. It serves as an introductory course, providing a framework upon which to build all other subsequent core courses. It also serves as a venue to introduce students to the five core areas of public health (epidemiology, biostatistics, health management and policy, health knowledge, and environmental health) through various presentations and activities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 697. Integrating Learning and Experience in Public Health 2 Units
Prerequisite(s): Enrolled in Master of Public Health program, completion of MPH year 1 requirements, MPH year 2 fall semester requirements, and concurrent enrollment in MPH practicum.
Description: This course is designed to integrate knowledge acquired in coursework and other learning experiences and to apply this knowledge to situations with various aspects of professional public health practice. Through the evaluation of previous cases and the development of a new case from current and emerging areas of public health, students working in teams demonstrate their abilities in applying general and specific public health knowledge they have learned through their courses of study. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 699. Mentored Research 1-3 Units
Prerequisite(s): Enrolled in the MSc or Certificate in Clinical Investigation Sciences program.
Description: Independent research in order to complete the professional paper requirement for the Master of Science in Clinical Investigation Sciences program.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHPH 701. Directed Reading for Qualifying Examinations 1-9 Units
Grading Basis: Pass/Fail
Prerequisite(s): Graduate student in the School of Public Health and Information Sciences who has completed required coursework in a doctoral degree program and is preparing for comprehensive examinations.
Description: The course allows doctoral students to prepare for qualifying examinations with faculty guidance on topics and readings. This course may be repeated. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Social Work (SW)

SW 600. Topical Seminar 3 Units
Description: Topical Seminar in Social Work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 601. Human Behavior in the Social Environment I 3 Units
Prerequisite(s): Restricted to students enrolled through Kent School of Social Work.
Description: The focus of this class is on macro theories as well as the impact of social and economic forces on individuals and social systems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 602. Social Welfare Institutions, Policies and Services 3 Units
Prerequisite(s): Restricted to students enrolled through Kent School of Social Work.
Description: The focus of this class is on the historical context and evolution of social welfare policy, and how dominant values and contextual factors shape policy in a broad range of social welfare arenas. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 603. Diversity, Oppression, and Social Justice Practice 3 Units
Description: This foundation course designed to provide students with the knowledge and skills for social work practice with people who are subject to various forms of oppression such as racism, sexism, heterosexism, classism, ageism, and ableism operating at the individual, community and institutional levels of society. Diversity, strengths, and social justice practice are emphasized. Developing greater professional and personal awareness about the impacts of various forms of oppression are addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 604. Social Work Practice I 3 Units
Prerequisite(s): SW 670 (or concurrent); restricted to students admitted to Kent School of Social Work.
Description: The focus of this class is on the development of knowledge and skills necessary for generalist social work practice with individuals, families and small groups. This class is designed to provide students with an understanding of the social work profession’s mission, values, ethics and roles.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 605. Social Work Practice II 3 Units
Prerequisite(s): SW 604; SW 671 (or concurrent); restricted to students admitted to the Kent School of Social Work.
Description: The focus of this class is on the development of the knowledge and skills necessary for generalist social work practice with larger groups, organizations and communities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 610. Foundation Couple and Family Therapy Practicum I 3 Units
Grading Basis: Pass/Fail
Description: Students will conduct assessment and therapy with individuals, couples, and families under the supervision of a state or AAMFT-approved supervisor. This course will allow students to apply assessment and treatment skills learned in SW 700, SW 701, and SW 702. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 611. Foundation Couple and Family Therapy Practicum II 3 Units
Grading Basis: Pass/Fail
Description: Students will conduct assessment and therapy with individuals, couples, and families under the supervision of a state- or AAMFT-approved supervisor. This course will allow students to apply assessment and treatment skills learned in SW 700, SW 701, and SW 702. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 612. Advanced Couple and Family Therapy Practicum I 3 Units
Grading Basis: Pass/Fail
Description: Students will conduct assessment and therapy with individuals, couples, and families under the supervision of a state- or AAMFT-approved supervisor. This course will allow students to apply assessment and treatment skills learned in SW 700, SW 701, and SW 702. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 613. Advanced Couple and Family Therapy Practicum II 3 Units
Grading Basis: Pass/Fail
Description: Students will conduct assessment and therapy with individuals, couples, and families under the supervision of a state- or AAMFT-approved supervisor. This course will allow students to apply assessment and treatment skills learned in SW 700, SW 701, and SW 702. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 615. Mental Health 3 Units
Description: Focus on theory, critical issues and problems in mental health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 619. Human Behavior in the Social Environment II 3 Units
Prerequisite(s): SW 601; restricted to students admitted to the Kent School of Social Work.
Description: The focus of this class is on the theories and knowledge of the human biopsychosocial development, including theories and knowledge about the range of smaller social systems in which individuals live. Content about values and ethical issues related to biopsychosocial theories are included.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 622. Issues in Policy and Service Delivery 3 Units
Prerequisite(s): SW 602; restricted to students enrolled in the Kent School of Social Work.
Description: The focus of this class is on the interrelationships between problem conceptualization, policy options and their impact on social work practice and clients. Students develop their ability to critically assess current service delivery problems as they impact client need, giving particular attention to vulnerable population groups.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 625. Children and Families 3 Units
Description: Focuses on practice with children and families within an ecological framework. The complexity of practice with children and families within various human service delivery systems is examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 626. Research Methodology and Design 3 Units
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Description: This course provides students the foundation knowledge for scientific inquiry. It covers all aspects of the research process from problem formulation to writing of the research report. It introduces students to qualitative, quantitative, and single-subject methods of conducting research and evaluating practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 627. Military Social Work 3 Units
Description: This course is designed to develop competence in providing services to active duty, reserve, National Guard, veterans, and their families. It focuses on a wide range of challenges, strengths, and interventions that social workers need to learn and utilize in practice when working with this population. It is recognized that returning veterans from the Global War on Terrorism and their families in addition to the millions of veterans from previous military service likely will exceed the capacity of the Department of Defense and the Department of Veteran Affairs, consequently, many of these service members will be seeking assistance from social workers in the civilian sector.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 628. Military Social Work Seminar I 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Enrollment in the Military Social Work specialization.
Description: Military social work is a specialization of social work that provides services to persons who have served or are serving in the military and their families. MSSW students who are specializing in military social work are required to take this one credit hour seminar per semester that extends over two semesters of their final year at Kent School of Social Work. It provides students with an opportunity to integrate the theoretical knowledge that they are learning in the classroom with practical experiences in their field placements. In the seminar students from different practice settings will participate and share the diversity of problems and approaches to the practice of military social work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 629</td>
<td>Military Social Work Seminar II</td>
<td>1 Unit</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrollment in the Military Social Work specialization.</td>
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<tr>
<td>SW 630</td>
<td>School Social Work: Policy and Practice</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
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<tr>
<td>SW 631</td>
<td>Personality: Concepts and Evidence</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
</tr>
<tr>
<td>SW 633</td>
<td>Social Work and Human Sexuality</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
</tr>
<tr>
<td>SW 635</td>
<td>Rights of Children</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
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<tr>
<td>SW 636</td>
<td>Death &amp; Grief</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
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<tr>
<td>SW 639</td>
<td>Crisis Intervention</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
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<tr>
<td>SW 640</td>
<td>Advanced Social Work Practice II</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
</tr>
<tr>
<td>SW 641</td>
<td>Advanced Social Work Practice I</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
</tr>
<tr>
<td>SW 642</td>
<td>Psychopathology</td>
<td>3 Units</td>
<td>Designed to prepare students for social work practice in the public schools.</td>
<td>Enrolled in the Military Social Work Seminar II</td>
</tr>
</tbody>
</table>
SW 647. Psychosocial Practice in Oncology I: Interpersonal Practice 3 Units

**Description:** This course focuses on learning and applying clinical competencies in the psychosocial care of cancer patients and their families. Students will learn to select appropriate evidence-based interventions and develop an identity as oncology social workers. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 648. Psychosocial Practice in Oncology II: Community Approaches to Promote Health Equity 3 Units

**Description:** This course focuses on the knowledge base and practice skills that are needed to make macro-level change in order to eliminate the disparities in health outcomes for persons with cancer. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 649. Psychosocial Oncology Seminar I 1 Unit

**Description:** Students will participate in an innovative interdisciplinary curriculum in palliative care (iCope). The seminar will assist with planning future goals for their career development upon graduation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 650. Psychosocial Oncology Seminar II 1 Unit

**Grading Basis:** Pass/Fail

**Description:** Students will participate in an innovative interdisciplinary curriculum in palliative care (iCope). The seminar will assist with planning future goals for their career development. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 651. Foundations of Family Therapy 3 Units

**Prerequisite(s):** Restricted to students enrolled through Kent School of Social Work.

**Description:** This course is designed to give students a comprehensive and substantive understanding of the family life cycle, family dynamics, systemic thinking, and interactional theories. Students will also be introduced to the role of the marital and family therapist in Terms of relationship to clients, as a relational approach to understanding clients, and the self of the therapist. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 652. Introduction to Child Welfare Practice 3 Units

**Description:** This course focuses on skills of screening, investigation, assessment, case planning, and service delivery within the child welfare system. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 653. Services to Children 3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 654. Exceptional Child 3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 655. Family Violence 3 Units

**Description:** The focus of this course is on understanding, screening for, assessing, and intervening in various forms of family violence. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 656. Assessment & Case Management of Child Sexual Abuse 3 Units

**Description:** This course is designed to prepare students to screen, assess, and intervene in situations involving child sexual abuse. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 657. Group Methods 3 Units

**Description:** All major aspects of group life are explored and there is an emphasis on the purposes, content, and forms of various group experiences. The social worker's role in facilitating the group process is detailed and there is a special emphasis placed on the beginning processes associated with group methods. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 658. Group Psychotherapy 3 Units

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 659. Introduction to Family Therapy Practice 3 Units

**Prerequisite(s):** Restricted to students enrolled through the Kent School of Social Work.

**Description:** This course is designed to prepare students to screen, assess, and intervene in situations involving child sexual abuse. The focus of this course is on understanding, screening for, assessing, and intervening in various forms of family violence. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 660. Motivation and Change: The Process of Change and Strategies to Elicit Intrinsic Motivation. 3 Units

**Prerequisite(s):** Admitted to Kent School of Social Work.

**Description:** Understanding the process of behavior change and developing interviewing skills that elicit intrinsic motivation to change. Class content is in the form of books and guides on Motivational Interviewing, a popular proven practice method. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 661. Special Issues in Alcohol and Drug Counseling 3 Units
Description: This course includes highly specialized and advanced topics in addiction treatment to prepare students to begin practice in Alcohol and Drug Counselor training. Content will revolve around and complete a basic course of study for alcohol and drug counselors that was not adequately addressed in substance abuse and motivational interviewing classes. These advanced topics will 1) generally aid students in submitting the application for certification as alcohol and drug counselors, 2) provide students with required case management training for working in a licensed alcohol and other drug treatment facility, and 3) prepare students for working within multidisciplinary teams and gain familiarity with clinical supervision methods utilized in substance abuse treatment programs. 4) Students will become familiar with the use of the Addiction Severity Index (ASI) a very common assessment tool widely used in substance abuse treatment settings. The complexity and demonstrated efficacy of specialized treatment for substance abuse disorders is well documented and preparation to work with this problem will be valuable across a range of populations; including, but not limited to individuals treated in traditional and non-traditional treatment settings. Evidence based knowledge is progressively improving the effectiveness of treatment. This course will utilize a convergence of knowledge to prepare students for their role in advancing the treatment of alcohol and other drug dependency.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 662. Substance Use and Substance Use Disorders 3 Units
Prerequisite(s): Restricted to Kent School of Social Work students.
Description: Examines current issues associated with substance abuse. Prevailing paradigms related to substance abuse are explored and pragmatic intervention strategies for dealing with those abusing substances are presented and applied.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 663. Enhancing Safety & Permanency of Children in the Child Welfare System 3 Units
Description: This course focuses on practice knowledge and skills in the delivery of services to children and youth in foster and out of home care and families that care for them.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 664. Social Work and the Law 3 Units
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Description: This course is designed to: 1) familiarize social work students with the legal system and the various roles of social workers within the legal arena, 2) increase the social work students’ understanding of the impact of the legal system on social work clients and client groups, 3) increase the social work students’ understanding of the interface of law with professional social work practice, and 4) develop and enhance the skills needed by the professional social worker in situations where social work and law interface.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 665. Supervision, Training, and Consultation 3 Units
Description: This course focuses on concepts of learning, competence, motivation and growth. How each of these is applied in supervision, training, consultation in both one to one and group settings is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 666. Collaborative Practice with Substance Abuse & Mental Health Services 3 Units
Description: This course focuses on preparing students to practice collaboratively with substance abuse, mental health, and child welfare services to screen, assess, manage, and refer families to MH and SA services.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 667. Negotiation, Mediation & Conflict Transformation 3 Units
Description: This course integrates communication and negotiation theory and skills with the values and strategies of social work. Through reflective practice, the course will increase learners’ skills in creating a space for people in conflict to communicate more effectively with one another. Students will practice negotiating for agreements and resources, mediating disagreements, and advocating on behalf of disenfranchised and vulnerable persons.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 668. Advanced Research Practice I 3 Units
Prerequisite(s): SW 626 or admission into the 30-hour program; access to a social services agency where projects from this class can be implemented (via practicum, work, or other access to an agency); and restricted to students enrolled through the Kent School of Social Work.
Description: This course prepares students to critically appraise information gathered through literature reviews, practice wisdom, and consumer perspectives to inform best practices in social work. A plan to incorporate critically appraised information into current micro and/or macro social work practice is developed and implemented.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 669. Advanced Research Practice II 3 Units
Prerequisite(s): SW 668; access to a social services agency where projects from this class can be implemented (via practicum, work, or other access to an agency); and restricted to students enrolled through the Kent School of Social Work.
Description: This course prepares students to disseminate best practices information to micro and macro practice settings, and evaluate the impact of their dissemination efforts via use of quantitative and qualitative methods and analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 670. Foundation/Generalist Social Work Practicum I 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 604 or SW 701.
Description: This course is a generalist fieldwork experience based on the strengths model of social work practice and taken concurrently with the Social Work Practice I course. This practicum assists in developing a social work perspective and skills working with a wide range of client systems: individuals, couples, families, groups, organizations, communities and the larger society. The practicum experience provides for the integration of theory, learned across the foundation courses related to human behavior, diversity, organizational and community dynamics, policy and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 671. Foundation/Generalist Social Work Practicum II 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 605.
Description: This course is a generalist fieldwork experience based on the strengths model of social work practice and taken concurrently with the Social Work Practice I course. The practicum assists in developing a social work perspective and skills working with a wide range of client systems: individuals, couples, families, groups, organizations, communities and the larger society. The practicum experience provides for the integration of theory, learned across the foundation courses related to human behavior, diversity, organizational and community dynamics, policy and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 672. Advanced Social Work Practicum I 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 640.
Description: This course focuses on the application of advanced theory, knowledge and skills covered in the advanced level curriculum. Students will integrate the competencies developed in their advanced year with practice experience. This course is a generalist fieldwork experience based on the strengths model of social work practice and taken concurrently with the Social Work Practice I course. This practicum assists in developing a social work perspective and skills working with a wide range of client systems: individuals, couples, families, groups, organizations, communities and the larger society. The practicum experience provides for the integration of theory, learned across the foundation courses related to human behavior, diversity, organizational and community dynamics, policy and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 673. Advanced Social Work Practicum II 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 677.
Description: This course focuses on the application of advanced theory, knowledge and skills covered in the advanced level curriculum. Students will integrate the competencies developed in their advanced year with practice experience. This course is a generalist fieldwork experience based on the strengths model of social work practice and taken concurrently with the Social Work Practice I course. This practicum assists in developing a social work perspective and skills working with a wide range of client systems: individuals, couples, families, groups, organizations, communities and the larger society. The practicum experience provides for the integration of theory, learned across the foundation courses related to human behavior, diversity, organizational and community dynamics, policy and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 674. Administration of Human Delivery Systems 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 677.
Description: This course focuses on the application of advanced theory, knowledge and skills covered in the advanced level curriculum. Students will integrate the competencies developed in their advanced year with practice experience. This course is a generalist fieldwork experience based on the strengths model of social work practice and taken concurrently with the Social Work Practice I course. This practicum assists in developing a social work perspective and skills working with a wide range of client systems: individuals, couples, families, groups, organizations, communities and the larger society. The practicum experience provides for the integration of theory, learned across the foundation courses related to human behavior, diversity, organizational and community dynamics, policy and research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 675. Child Welfare Supervision, Coaching and Mentoring Practices & Policies to Achieve Best Outcomes 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 677.
Description: This course focuses on understanding and applying principles and skills of supervision, coaching and mentoring in the field of child welfare.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 676. Program Design, Implementation and Change 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work.
Corequisite(s): SW 677.
Description: This course focuses on understanding and applying principles and skills of supervision, coaching and mentoring in the field of child welfare.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 677. Advanced Social Work Practicum III 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Restricted to students enrolled through the Kent School of Social Work; SW 605 or admission into the 30-hour program and SW 673 (concurrent).
Description: This course focuses on understanding and applying principles and skills of supervision, coaching and mentoring in the field of child welfare.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 678. Advanced Alcohol and Drug Counseling Specialization Practicum Seminar  
Grading Basis: Pass/Fail  
Prerequisite(s): Enrollment in the Alcohol and Drug Counseling Specialization.  
Description: This is a required seminar for Advanced Practicum ADCS students designed to achieve two goals: 1) Enhance knowledge of research supported family engagement methods in the treatment of substance abuse (all students); and one of the following: advance special knowledge and skills related to 2a) criminal justice and treatment of substance abuse immersion practicum students) or 2b) leadership (rotational practicum students).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 679. Advanced Alcohol and Drug Counseling Specialization Practicum Seminar-Spring Semester  
Grading Basis: Pass/Fail  
Prerequisite(s): Enrollment in the Alcohol and Drug Counseling Specialization.  
Description: This is a required seminar for Advanced Practicum ADCS students designed to achieve two goals: 1) Enhance knowledge of research supported family engagement methods in the treatment of substance abuse (all students); and one of the following: advance special knowledge and skills related to 2a) criminal justice and treatment of substance abuse immersion practicum students) or 2b) leadership (rotational practicum students).  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 681. Social Gerontology  
3 Units  
Description: Explores societal, cultural, and individual issues associated with aging and the field of aging itself. The field of social gerontology is discussed; the biological, physiological, psychological, and social contexts of aging are examined; and the students explore what it means to age.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 682. Social Work Practice with Older Persons  
3 Units  
Description: Specific knowledge, skills and values associated with social work intervention with older persons are the emphasis of this course. There is an emphasis on the heterogeneity of the population of older Americans and issues associated with diversity. Taught from a strengths perspective using a narrative approach, this course will provide the learner with pragmatic skills needed to work with diverse populations of older adults.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 684. Spirituality and Social Work  
3 Units  
Description: Provides an in-depth examination of the meaning of spirituality for social work practice. Students will broaden their knowledge of basic spiritual and religious doctrines and principles and analyze their application to social work by applying this knowledge within various social work settings. This course is restricted to students in the Kent School.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 685. Planning and Community Development  
3 Units  
Description: Integrates theories of social science and social work as it develops student skills, knowledge, values in social planning and community development. There is a special emphasis placed on conceptual and practice skills necessary for successful social planning and community development.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 686. Gerontology Specialization Lab I  
1 Unit  
Grading Basis: Pass/Fail  
Corequisite(s): SW 672.  
Description: Supervision of student work with a variety of gerontology clients and their families community agency settings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 687. Gerontology Specialization Lab II  
1 Unit  
Grading Basis: Pass/Fail  
Corequisite(s): SW 673.  
Description: Supervision of student work with a variety of gerontology clients and their families community agency settings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 688. Policy Analysis  
3 Units  
Description: Demographic, political, economic and other influences are considered as they act upon policy development and related social problems.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 689. Interpreting and Promoting Human Service Programs  
3 Units  
Description: This course familiarizes social workers with the use of media in promoting and interpreting social welfare policies and programs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 690. Macro Social Work Practice in the Health Field  
3 Units  
Description: Provides overview of major issues in organization and delivery of health services and the planning, implementation and evaluation of programs.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 691. Mental Health Specialization Integrative Seminar I  
1 Unit  
Grading Basis: Pass/Fail  
Prerequisite(s): Completion of Foundation requirements and acceptance into Mental Health Specialization.  
Description: Supervision of student work with a variety of clients and their families with mental health needs in community agency settings.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 692. Mental Health Specialization Integrative Seminar 2 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Completion of Foundation requirements and acceptance into Mental Health Specialization.
Description: Supervision of student work with a variety of clients and their families with mental health needs in community agency settings. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 694. SW IN HEALTH FIELD 3 Units
Description: SW IN HEALTH FIELD
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 697. Advanced Topical Seminar 3-4 Units
Prerequisite(s): Permission of instructor.
Description: This course focuses on the development of positive mental health and health in populations at risk. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 698. Structured Independent Study 1-4 Units
Prerequisite(s): Permission of the Director, Instructor/Advisor.
Description: Addresses content not covered in existing courses; provides for the development of content otherwise unavailable. Prescribed content is addressed in seminars, conferences and readings. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 699. Independent Study 1-4 Units
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 700. Foundations of Family Therapy: Theory and Practice 3 Units
Prerequisite(s): Admission to the Marriage and Family Therapy Specialization.
Description: This course is family social work preparatory course that covers three foundational elements of family therapy practice, 1) a comprehensive and substantive understanding of the family life cycle, family dynamics, systemic thinking, and interactional theories, 2) an introduction to the major assessment and intervention ideas/skills associated with the major schools of marital family therapy, and 3) the foundational skills that encompass systemic assessment, consensus building, case building, case planning and the tools necessary to conduct an initial interview. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 701. Family Therapy Assessment and Treatment in Diverse Populations 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Restricted to students enrolled through Kent School of Social Work.
Description: This course will focus on more in-depth assessments and interventions regarding specific problem populations faced in marital and family therapy practice. Emphasis will be given to a critical review and evaluation of the evidence based practices as well as interventions or strategies that represent integrative approaches in the field. Special attention will be given to the use of the DSM-IV and pharmacology as it is related to MFT practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 702. Couple Therapy: Theory and Practice 3 Units
Term Typically Offered: Fall Only
Description: This course provides the student with a framework for managing difficult and controversial issues in the field of couple therapy. The student will become versed in couple assessment and couple interventions. Protocols regarding special issues in the field of couple therapy will be taught including divorce, sexual problems, infidelity, domestic violence, etc. The course will examine pertinent ethical issues and concerns as it relates to the field of couple therapy. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 703. Contemporary Issues, Community Intersections & Collaborations in CFT 3 Units
Term Typically Offered: Spring Only
Description: This course will review social problems and contemporary issues facing families. Particular emphasis will be placed on social problems such as domestic violence, divorce, child maltreatment, substance abuse, school bullying and health concerns. Contemporary issues such as technology, same-sex marriage, and immigration will also be addressed. Student development of competencies to practice within defined contexts, such as healthcare settings, schools and military settings, and with colleges from other disciplines will be facilitated. The tools for learning will include lecture, discussion, role-playing, case reviews and teamwork on projects designed to develop and enhance specific skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 704. Integrating Family Therapy: Theory and Practice 3 Units
Prerequisite(s): Admission to the CFT Program.
Description: Examines integrative models of family systems therapy. Personal models of integration will be encouraged. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 705. Professional Issues & Ethics in Couple & Family Therapy 3 Units
Prerequisite(s): Admission to the CFT Program and SW 702.
Description: This is a capstone seminar in professional issues taken in the last semester of the MSSW/MFT Specialization Program. This course reviews and integrates the graduates' learning experiences in SW 721-725 and SW 703 in the area of professional issues and ethics. The course is designed to assist the graduating student in their professional development, legal responsibilities, current professional ethics, the role of professional associations, licensure legislation, independent practice considerations, and inter-professional cooperation. The students using variable credit option must have permission of instructor and a course of proposed study outlined prior to registrations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 706. Ethical and Professional Practice in Social Work 3 Units
Prerequisite(s): SW 721. Family Therapy Supervision I and Pass/Fail
Corequisite(s): SW 722.
Description: Supervision of student work with a variety of families and family problems in community agency settings. The student will be required to submit a proposal for investigating some area or problem in social work not ordinarily offered in the social work program or the marital and family therapy program. The report of the student's study will be presented in a written report.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 707. Special Topics in Family Therapy 1-3 Units
Prerequisite(s): Admission to the CFT Program.
Description: Special topics in marital and family therapy. Topic will be indicated in the term schedule.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 708. Independent Study 1-4 Units
Prerequisite(s): Admission to CFT Program, consent of Program director, and permission of the instructor.
Description: The student will be required to submit a proposal for investigating some area or problem in social work not ordinarily offered in the social work program or the marital and family therapy program. The report of the student's study will be presented in a written report.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 721. Family Therapy Supervision I 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): Admission to CFT program.
Corequisite(s): SW 610.
Description: Supervision of student work with a variety of families and family problems in community agency settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 722. Family Therapy Supervision II 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): SW 721.
Corequisite(s): SW 611.
Description: Supervision of student work with a variety of families and family problems in community agency settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 723. Family Therapy Supervision III 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): SW 722.
Description: Supervision of student work with a variety of families and family problems in community agency settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 724. Family Therapy Supervision IV 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): SW 723.
Corequisite(s): SW 612.
Description: Supervision of student work with a variety of families and family problems in community agency settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 725. Family Therapy Supervision V 3 Units
Grading Basis: Pass/Fail
Term Typically Offered: Spring Only
Prerequisite(s): SW 724.
Corequisite(s): SW 613.
Description: Supervision of student work with a variety of families and family problems in community agency settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 726. Post-Master's Practicum/Supervision 0 Units
Prerequisite(s): Completion of all program course requirements.
Description: Supervision of student work with a variety of families and family problems in a community agency setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 755. Theory II: Theory Development 3 Units
Description: Explores the nature of knowledge and how it is generated and acquired. Examines explanatory and practice theory, current models related to practice, and the relationship of theory and data to social work. Strategies for building knowledge will be discussed. Students will analyze theories into their components, construct minitheories, and propose how they can be tested in social work practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 756. Professional Seminar I 1 Unit
Description: Introduces doctoral students to social welfare policy and research interests of the faculty, particularly research in its early stages of conceptual development. Explores practical issues in the conceptual development and conduct of research providing students with a possible research agenda.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 757. Theory III: Analysis of Social Work Problems 3 Units
Description: Provides students with a theoretical and conceptual framework for understanding social problems and their implications for macro social work practice. Critical perspectives related to social science theory will be identified, assumptions assessed, values examined, and empirical evidence analyzed. Covers theories from sociological, socio-cultural, political, economic, historical, and other perspectives. Helps students to develop their abilities to analyze and critique social problems and macro social work practice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 758. Professional Seminar II  
**Prerequisite(s):** Professional Seminar I.  
**Description:** Continuation of Professional Seminar I. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 759. Theory I: Social Work Change Theories  
**Description:** Provides a critical analysis of theories which seeks to explain human behavior and serves as a foundation for current clinical change interventions. Examines empirical support for and efficacy of major treatment modalities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 760. Ethics, Social Work and Society  
**Description:** Identifies and articulates the philosophical formulations of relevant ethical traditions and their implications for social work. Examines approaches to ethical analysis and major ethical problems facing contemporary social work. Emphasizes the development of advanced ethical reasoning and decision-making skills. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 761. Research in Social Work Seminar  
**Prerequisite(s):** Successful completion of the qualifying examination.  
**Description:** Facilitates the student's completion of the dissertation prospectus and the dissertation itself. Students make formal presentations on their research plans addressing available literature, measurement and methodological issues, analysis of data, limitations, and the importance of investigation. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 762. Research Practicum  
**Prerequisite(s):** Consent of instructor.  
**Description:** Hands-on experience in the conception and implementation of a project, and/or data collection and analysis by working directly with faculty who are engaged in research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 763. Teaching Practicum  
**Prerequisite(s):** Consent of instructor.  
**Description:** Experience in planning and teaching a social work course including classroom teaching and evaluation of students' work. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 764. Teaching in Social Work  
**Description:** Engages students in the philosophy of education with emphasis on professional education, curriculum theory and social work curriculum standards, and instructional theory, methods and technology. Each student will create a social work course from initial surveying of a body of relevant literature, choosing content and conceptualizing it, developing lectures, and inventing educational tasks and assignments. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 766. Doctoral Foundations  
**Grading Basis:** Pass/Fail  
**Description:** Preparation for entering SW doctoral students for two semesters of study of Advanced Research & Design and Analysis (ARDA I and ARDA II). A rigorous review of research conceptualization, design and sampling procedures will be a major focus of the class. Students will develop basic skills utilizing Predictive Analytics Software (PASW, formerly SPSS) and in addition to be compliant with school, university and federal standards for research by completing all required institutional Review Board (IRB) trainings. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 769. Advanced Research Design and Analysis I  
**Prerequisite(s):** SW 769.  
**Description:** The Integration of statistics, and quantitative and qualitative research methods includes how theoretical perspectives drive research questions, measurement concepts, sampling and research designs, and how to determine appropriate statistical procedures. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 770. Advanced Research Design and Analysis II  
**Prerequisite(s):** SW 769 and SW 770.  
**Description:** Students will learn and practice the basic elements of organizing, conducting, and disseminating qualitative research, with special attention focused upon grounded theory, ethnographies, and action research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 771. Advanced Research Design and Analysis III  
**Prerequisite(s):** SW 769 and SW 770.  
**Description:** Students will work one-on-one with professors in one of the following: a) guided research, b) developing detailed research agendas, or c) in-depth study of particular analytic procedures to be used in their subsequent dissertations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 772. Advanced Qualitative Research  
**Prerequisite(s):** SW 769 and SW 770 or professor's permission.  
**Description:** Students will learn and practice the basic elements of organizing, conducting, and disseminating qualitative research, with special attention focused upon grounded theory, ethnographies, and action research. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 773. Advanced Measurement in Social Work Research  
**Prerequisite(s):** Knowledge of univariate and bivariate stats (ARDA I & II) and mastery of SPSS stats software.  
**Description:** The concepts, principles, and models of measurement include designing, testing and refining measurements and factor analysis, reliability and validity, measurement error, classical measurement theory, item response theory and generalizability theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SW 797. Independent Study 3-12 Units
**Description:** Independent studies for doctoral students.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 798. Special Topics in Social Work 1-6 Units
**Prerequisite(s):** Kent Doctoral Student, topic cleared by Director or Assistant Director.
**Description:** Exploration of one or more topics not covered in the regular course offerings. For students after they finish their core courses and are preparing for their comprehensive exam.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SW 799. Dissertation 1-18 Units
**Prerequisite(s):** Satisfactory completion of the qualifying examination and permission of dissertation director.
**Description:** Research on dissertation project.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Sociology (SOC)

SOC 500. Special Topics 3 Units
**Prerequisite(s):** Nine hours of core courses or consent of instructor.
**Description:** Exploration of well-defined topics in Sociology not treated in regular courses. Topic will be announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 512. Gender, Race, Work, and Welfare 3 Units
**Prerequisite(s):** 9 hours of social sciences work at the 300 level or above; or consent of instructor.
**Description:** Introduction to theory and research on labor market and welfare state with focus on gender race/ethnicity as they influence women’s experiences of and ideas about work and welfare.
**Note:** Cross-listed with WGST 512 and PAS 512.
**Note:** Credit may not be earned for both SOC 512/WGST 512/PAS 512 and SOC 612/WGST 612/PAS 612.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 530. Visual Sociology 3 Units
**Prerequisite(s):** Permission of instructor required.
**Description:** A field-oriented, laboratory-based course using the camera as a tool in studying and documenting selected elements of the rich and complex social environment.
**Note:** Students must have a 35mm SLR camera.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 604. Proseminar in Sociology-MA 1 Unit
**Description:** Designed to provide new graduate students with an introduction to sociology as a profession and to the Department of Sociology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 605. Voluntarism 3 Units
**Description:** Investigation of issues and topics related to voluntary activity. Includes contact with voluntary organization in the local community.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 609. Statistics I 3 Units
**Prerequisite(s):** SOC 609.
**Description:** Review of multivariate analytic techniques and a brief introduction to modeling procedures in the social sciences. Students will be instructed in the use of SPSS procedures and are expected to employ these in their work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 610. Statistics II 3 Units
**Prerequisite(s):** SOC 609.
**Description:** Multivariate statistical analyses, focusing on multiple regression using standard computer packages (e.g., SPSS, SAS) operating in Windows.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 611. Statistics III 3 Units
**Prerequisite(s):** SOC 610 and SOC 615, or consent of instructor.
**Description:** Multivariate statistical techniques in both theoretical and applied sociological research settings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 612. Gender, Race, Work, and Welfare 3 Units
**Prerequisite(s):** Graduate status.
**Description:** Introduction to theory and research on labor market and welfare state with focus on gender and race/ethnicity as they influence women’s experiences of and ideas about work and welfare.
**Note:** Cross-listed with WGST 612 and PAS 612.
**Note:** Credit may not be earned for both SOC 612/WGST 612/PAS 612 and SOC 512/WGST 512/PAS 512.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 615. Research Methods 3 Units
**Description:** Intensive review of research design, instrumentation, survey procedures, data collection and processing techniques, analysis, and report writing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 618. Qualitative Research Methods 3 Units
Prerequisite(s): SOC 615 or consent of instructor.
Description: Provides opportunities to design and critique field studies in educational and social settings and to practice techniques used to collect and analyze qualitative data. Additional time required outside class for observations and interviews.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 622. Survey Research and Design 3 Units
Prerequisite(s): SOC 615 or consent of instructor.
Description: This course will cover comprehensive survey planning, including ethical issues paramount to survey-based research; pros and cons of various modes of administration; instrument design (operationalizing concepts and constructs into measures, question design considerations, response choices, optimizing layout, etc.); pretesting (such as focus groups and cognitive interviews); sampling (including error estimation and power analysis); and administration procedures (e.g., interviewer training, follow-ups, strategies to boost response rates, third party survey platforms/tools).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 628. Contemporary Theory 3 Units
Description: A survey of contemporary theoretical works that build upon, expand, challenge, or lie outside the bounds of classical sociological theories.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 630. Sociology of Education 3 Units
Description: Nature and function of mass education in modern society. Issues of politics of skill, dissemination of knowledge and values, and socialization. Focus on the school in urban society and as an instrument of social control, policy, and change.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 631. Sociology of Work and Occupations 3 Units
Description: The use of sociological theory in the study of industrial society. The social organization of work, alienation, labor relations, personnel policy, the impact of industrialization on social life and culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 636. Sociology of Human Sexuality 3 Units
Description: Advanced study of the historical, cultural, structural, and social-psychological factors affecting human sexual expression.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 640. Urban Sociology 3 Units
Description: Systematic critical examination of the history and application of social theory to the urban place. Specific attention is given to the utility of classical and contemporary theory in predicting and explaining human behavior in the urban environment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 642. Sociology of Disabilities 3 Units
Description: Intensive examination of sociological perspectives on medicine, culture, and science to examine the meanings, experiences, demographics, and impacts of disability in historical and contemporary social contexts.
Note: Cross-listed with WGST 615.
Note: Credit may not be earned for this course and SOC 442 or WGST 415.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 650. Sociology of Families 3 Units
Description: Study of the institution of the family, including intensive analysis of selected aspects of family group processes.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 660. Crime and Correction 3 Units
Description: An intensive theoretical analysis and/or field investigation of selected aspects of criminal behavior, juvenile delinquency, penal philosophy, correctional institutions, and/or probation and parole.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 661. Comparative Criminology 3 Units
Description: A cross-cultural study of criminal behavior with special emphasis on crime causation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 670. Advanced Demography 3 Units
Description: Advanced study in topics related to population structure, composition, distribution, size, change, and growth.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 672. Feminist Research and Methods in the Social Sciences 3 Units
Prerequisite(s): Admission to Women’s and Gender Studies Graduate Certificate or MA degree program, or admission to Sociology MA program, or permission of instructor.
Description: Through readings across social sciences disciplines (i.e., in sociology, anthropology, psychology, economics, political science), course will analyze many ways feminist theory and methodology have influenced research in the social sciences.
Note: Cross-listed with WGST 602.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 685. Race and Ethnicity 3 Units
Description: Current and historical issues in race, racism, and ethnicity. Focus on U.S. with reference to other societies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SOC 690. Independent Study 1-6 Units
Prerequisite(s): Consent of director of graduate studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 691. Topical Seminar in Sociology 3 Units
Description: An exploration of a specific topic or problem area of importance in contemporary Sociology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 693. Research Study Administration 3 Units
Prerequisite(s): Consent of director of graduate studies.
Description: This course requires students to conduct the research portion of their study, specifically a secondary data analysis, survey research, or qualitative research.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 695. Research Study 1-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 704. Proseminar in Sociology-PhD 1 Unit
Description: Designed to provide new PhD students with an introduction to Sociology as a profession and to the Department of Sociology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 706. Doctoral Exam Preparation 3-9 Units
Grading Basis: Pass/Fail
Prerequisite(s): Consent of graduate coordinator.
Description: Provides opportunity to prepare for comprehensive doctoral exams.
Note: May be repeated for a total of 9 credit hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 707. Internship Preparation 3 Units
Prerequisite(s): Completion of core and elective doctoral courses; consent of graduate coordinator.
Description: Provides opportunity to prepare for internship.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 708. PhD Internship 3-9 Units
Prerequisite(s): Consent of director of graduate studies.
Description: An assignment related to the student’s area of interest with a public or private agency or with a local business.
Note: May be repeated for a total of 9 credit hours.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 725. Organizational Theory 3 Units
Description: This course will survey the intellectual foundations of organizational theory, including analyses of the origins and structure of major organizational forms. This course will also survey contemporary micro-level organizational perspectives and theoretical debates.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 730. Fundamental Assumptions of Sociology 3 Units
Description: Implicit and explicit assumptions including the character and science, paradigms, evolution, humans and groups that are common to all areas of sociology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 735. Classical Theory 3 Units
Description: A survey of the important writings of the major theorists in classical sociology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 740. Social Policy 3 Units
Description: Advanced study on the formation, enactment, and consequences of social policies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 750. Program Evaluation 3 Units
Description: Evaluation of social programs through experimental and quasi-experimental design, multi-variate models, and impact analysis.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 760. Social Stratification 3 Units
Description: Critical analysis of sociological theories of and research in social inequality and social stratification. Discussion of classical and modern works. Focus on the concept and reality of social class.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 790. Independent Study-PhD 1-6 Units
Prerequisite(s): Consent of director of graduate studies.
Description: Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SOC 795. Dissertation Research 3-6 Units
Prerequisite(s): Consent of director of graduate studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Spanish (SPAN)

SPAN 500. Spanish Study Abroad 1-15 Units
Prerequisite(s): Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.
Description: Credit awarded upon demonstration of successful completion of program undertaken with prior approval of the department, including a paper or project and an oral or written examination in the language and culture, administered under the supervision of a faculty member.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 511. Studies in Spanish Medieval Literature 3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Special studies in the original language of selected works from the medieval period.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 513. Studies in Spanish Golden Age Literature 3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Intensive study of significant works of the Spanish Golden Age.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 516. Literary Influences in Nineteenth-Century Spanish 3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Study of significant writers of the Spanish Romantic, Realistic, and Naturalistic periods.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 518. Studies in Twentieth-Century Literature of Spain 3 Units
Prerequisite(s): SPAN 311, SPAN 321, SPAN 400.
Description: Study in depth of significant works of the Post-Civil War period.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 524. Introduction to Hispanic Linguistics 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): SPAN 311 and SPAN 321; or SPAN 325 and SPAN 335; or score of 400 on the Spanish Heritage Language Test.
Description: Introduction to basic linguistic concepts, exploration of communicative strategies, and investigation of Hispanic culture and dialectology.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 527. Latin American Literature: Colonial Period through 19th Century 3 Units
Prerequisite(s): SPAN 355, SPAN 403, or SPAN 404, or consent of instructor.
Description: Study of significant literary works from the Colonial Period through 19th Century.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 528. Contemporary Spanish-American Theatre 3 Units
Prerequisite(s): SPAN 355, SPAN 403, or SPAN 404, or consent of instructor.
Description: Major trends and authors in Spanish-American theatre since c. 1950. Critical methodology for theatre.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 529. Spanish-American Poetry 3 Units
Prerequisite(s): SPAN 355, SPAN 403, or SPAN 404, or consent of instructor.
Description: Selected Spanish-American poets, movements and national traditions. Critical methodological theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 530. Spanish-American Narrative 3 Units
Prerequisite(s): SPAN 355, SPAN 403 or SPAN 404 or consent of instructor.
Description: Selected Spanish-American novelists and short story writers, movements and national traditions. Critical methodological theory.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 544. Advanced Grammar and Stylistics 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): SPAN 311, SPAN 321, and 6 hours at the 400 level in Spanish.
Description: An intensive review of the more problematic aspects of Spanish grammar (including prepositions, subjunctive, conditional sentences, relative clauses, spelling, punctuation); a reflection on the nature and functions of written language; and a hands-on-workshop on achieving clarity and grace in written texts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 554. Hispanic Culture through Film and Media 3 Units
Prerequisite(s): SPAN 401, SPAN 402, SPAN 403, or SPAN 404; or consent of instructor; admission to the Spanish MA program.
Description: Study of specific/selected issues focusing on the Hispanic cultural milieu; its multiracial values and means of communication as manifested in the visual and print media (film, television, newspapers, documentaries, etc.)
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAN 561. Independent Study 1-3 Units
Prerequisite(s): Consent of department.
Description: Independent study in areas not covered in the regular curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 570. Basic Interpreting Skills 3 Units
Term Typically Offered: Summer Only
Prerequisite(s): SPAN 311 and SPAN 321 (or SPAN 325 and SPAN 335); and 6 hours at the 400 level; or consent of instructor.
Description: Provides an overview of the theoretical and practical foundations of Interpreting in community settings, including legal, health, education and social settings; intensive practice in consecutive interpreting, sight translation and basic simultaneous interpreting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 599. Special Topics 3 Units
Prerequisite(s): Consent of instructor.
Description: Topics of a unique or specialized nature in Spanish language, literature or culture.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 611. Introduction to Methods and Research in Hispanic Studies 3 Units
Prerequisite(s): Admission to Spanish MA program.
Description: An introduction to graduate studies in Spanish. Emphasis on critical approaches to Hispanic studies, scholarly writing in Spanish, and research methods using print and electronic resources.
Note: This course must be taken within the first 18 credit hours of graduate studies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 621. History of the Spanish Language 3 Units
Prerequisite(s): Admission to the Spanish MA program.
Description: Evolution of the Spanish language from earliest times to present. Linguistic analysis of representative literary and non-literary texts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 624. Special Topics in Hispanic Linguistics 3 Units
Prerequisite(s): Admission to the Spanish MA program.
Description: Intensive study of a particular topic relating to language use and/or interaction (e.g., Semiotics, sociopragmatics, discourse analysis, classroom interaction, language pedagogy).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 634. Spanish for the Workplace and the Community 3 Units
Prerequisite(s): Admission to the Spanish MA program.
Description: Development of skills and vocabulary necessary for the workplace. Emphasis on Spanish for special purposes/professions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 644. Approaches to Hispanic Literature 3 Units
Prerequisite(s): Admission to the Spanish MA program.
Description: Practice in literary criticism through intensive study of a particular genre, period, or national tradition.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 648. Hispanic Cultural Studies 3 Units
Prerequisite(s): Admission to Spanish MA program.
Description: Study of the social construction of values, ideas, and belief systems in the Hispanic world.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 661. Foundations of Translation and Interpreting 3 Units
Prerequisite(s): Admission to the Spanish MA program or graduate certificate in Translation program.
Description: Provides a theoretical background to the field of intercultural communication in its written and oral modalities. Introduces skills necessary for active practice in the main subfields of the profession. Requires reflection on ethical and cultural implication in the field.
Note: Cross-listed with TRPR 661.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 662. Education and Social Service Interpreting 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Explores the educational and social service interpreting settings; provides intensive practice in consecutive interpreting and sight translation at the intermediate-advanced level.
Note: Cross-listed with TRPR 662.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 663. Legal Translation and Interpreting 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Covers the fundamentals of legal translation and court interpretation in English and Spanish. Specific topics include legal language and terminology, legal text genres (birth certificates, academic transcripts, court proceedings and testimony); and translation and interpreting theories.
Note: Cross-listed with TRAN 663.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAN 664. Literary and Cultural Translation 3 Units
Prerequisite(s): SPAN 661 or TRPR 661; and SPAN 662 or TRPR 662; or consent of instructor.
Description: Exploration of the theoretical underpinnings of translation and culture, followed by work on practical matters of literary translation in a workshop setting.
Note: Cross-listed with TRAN 664.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 665. Medical Translation and Interpreting 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Covers the fundamentals of medical translation and interpreting. Specific topics include scientific language and terminology; basic medical concepts; technical and medical text genres (informed consent, clinical studies, instruction manuals, clinical interviews in various settings); and translation and interpreting theories.
Note: Cross-listed with TRPR 665.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 666. Computers in Translation 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Provides intensive practice in applying tools and techniques of computer-assisted translation (localization; terminology, translation memory and project management) to the translation of a variety of text types (video games, medical texts, technical documentation, etc).
Note: Cross-listed with TRPR 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 667. Final Translation and Interpreting Project 3 Units
Prerequisite(s): Completion of at least 9 graduate hours in the translation and interpreting curriculum.
Description: The student will work on an extensive translation of interpreting project in order to demonstrate mastery of the basic linguistic and technical skills in the field.
Note: Cross-listed with TRPR 669.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 668. Special Topics 3 Units
Prerequisite(s): Admission to the Spanish MA program.
Description: Selected topics in Spanish language, literature, or culture. Topics chosen will reflect the needs of the students and the background of the instructor.
Note: May be repeated under different subtitles.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 669. Independent Study 1-3 Units
Prerequisite(s): Consent of the department.
Description: Independent study in areas not covered in the regular graduate curriculum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAN 670. Thesis 3-6 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Sport Administration (SPAD)

SPAD 509. International Sport 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course is designed to examine sport from an international perspective, identifying differences in governance and social issues affecting sport managers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 510. Entrepreneurship in Sport Business 3 Units
Prerequisite(s): Junior Standing or consent of instructor.
Description: This course will provide an analysis of entrepreneurship in sport and the sport industry. Emphasis will be placed on the structure and framework of entrepreneurial endeavors and the theory and practice on entrepreneurs in sport.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 521. Independent Study in Sport Administration 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Independent examination of selected topic(s) in Sport Administration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 524. Management of Professional Baseball 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course is designed to examine the professional baseball segment of the sport industry from a managerial perspective, identifying the sports history, governance structures, and the social issues affecting sport managers.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 525. Sport Event Planning and Management 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course is designed to introduce students to principles and practices of planning, funding, operating, and evaluating events within the sport industry. This course includes actual hands-on involvement with event planning and management.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAD 529. Women and Sport 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior standing or consent of instructor.
Description: An effort to understand the role of the American woman in sport. Studies concepts about women, sport, and society in contemporary and historical perspectives. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 530. Sport Promotion and Sales 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: Covers the application of various promotional strategies such as advertising, direct sales, sales promotion, and publicity and examines how those strategies are integral to a sport organization's marketing plan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 536. Sport Administration in Nonprofit Organizations 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course provides a comprehensive introduction to the principles of management and their practical applications to sport, leisure, and recreation organizations in the nonprofit sector.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 561. Special Topics in Sport Administration 1-3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Junior standing or consent of instructor.
Description: Selected projects of interest to Sport Administration faculty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 571. Sport for Development and Peace 3 Units
Prerequisite(s): Junior standing or consent of instructor.
Description: This course will introduce students to sports for social change, often referred to as Sport for Development and Peace (SDP). Through this class, students will develop practical and theoretical knowledge of SDP by learning about key issues and concepts. The goal of the class is for students to develop an understanding of how SDP relates to their future career of choice in the sport industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 604. Financial Principles of Sport 3 Units
Description: Examines basic financial and managerial accounting concepts necessary to be financially literate in the business of sport. Special emphasis will be placed on understanding annual reports using financial analysis ratios and examining methods for increasing revenue and controlling costs in the sport industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 605. Sports Facility Management 3 Units
Prerequisite(s): Admission to the CEHD or CBPA or officially accepted as a sport administration minor, and SPAD 381 or SPAD 281.
Description: Investigates the design and development of various athletic facilities in diverse settings. Examines corporate, community, and commercial facilities for strengths and weaknesses in design and management procedures.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 625. Sport Management and Leadership 3 Units
Prerequisite(s): Admission to MS program or consent of instructor.
Description: This course is an overview of the nature and scope of the sport industry. This course will expand the students' understanding of management theories and their application to sport administration.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 635. Research in Sport Administration 3 Units
Description: A critical analysis of current research and literature in Sport Administration and the sport business industry for practical application. Students will identify a research question; develop a review of literature; develop a research design; and identify possible implications and applications.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 637. Sport Analytics 3 Units
Prerequisite(s): SPAD 635.
Description: An in-depth analysis of how analytical methods can be applied in the sport industry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 645. Sport Communication Theory and Practice 3 Units
Term Typically Offered: Spring Only
Description: The purpose of this course is three-fold: 1) to explore sport communication theories and how they relate to current issues and topics within the sport communication realm, particularly as they address mass media communication and the larger sport environment; 2) to gain a firm understanding of how the media theory is applied to peer-reviewed research in the realm of sport communication; and 3) to examine more practical concepts, activities, and behaviors related to sport communication and apply them to professional and collegiate sports.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 661. Special Topics in Sport Administration 3 Units
Description: Selected projects of interest to sport administration faculty.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SPAD 680. Athletics and Higher Education 3 Units
Description: Examination of the historical development of athletics within American institutions of higher learning with an emphasis upon concept and ideas that underlie the developments and the major problems affecting contemporary intercollegiate athletics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 683. Sport Marketing 3 Units
Description: Basic principles of promotion, marketing, sponsorship, public relations, television/radio rights, licensing and logos, fund-raising, and more as applied to the sport business industry. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 684. Sport Policy 3 Units
Description: Trends and issues of importance to the practitioner in sport administration. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 685. Case Studies in Sport Administration 3 Units
Prerequisite(s): SPAD 618, SPAD 625, and SPAD 683.
Description: Applications of critical analysis and decision making models to sport industry settings; focus on management and social issues. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 689. Legal Aspects in the Sport Industry 3 Units
Prerequisite(s): SPAD 625.
Description: Examines legal issues involving athletes, administrators, athletic trainers, coaches, equipment manufacturers, officials, operators of sport facilities, physicians, and the spectator. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 692. Internship in Sport Administration 3 Units
Prerequisite(s): 18 hours completed toward a degree, 12 hours in SPAD, and consent of instructor.
Description: Supervised practical work experience in an organization or business related to student’s academic field, area of specialization, or career interest. Students enrolled in class must work a minimum of 400 hours at their internship site. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 699. Directed Readings in Sport Administration 1-3 Units
Prerequisite(s): Fifteen graduate hours and consent of sport administration instructor.
Description: Supervised readings and written project relating to a specific research topic in physical education. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 701. Doctoral Seminar in Sport Administration Research 3 Units
Prerequisite(s): Admission to PhD program or consent of instructor.
Description: This course will provide students with the opportunity to analyze and discuss theories related to behavior of individuals and groups in sport and exercise organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 702. Research Colloquium in Sport Administration I 3 Units
Prerequisite(s): Admission to PhD program or consent of instructor.
Description: This course will provide students with the opportunity to analyze and discuss theories related to behavior of individuals and groups in sport and exercise organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 703. Doctoral Seminar in Sport Consumer Research 3 Units
Prerequisite(s): Admission to PhD program or consent of instructor.
Description: This course will provide students with the opportunity to analyze and discuss theories related to the marketing of sport and exercise organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 704. Research Colloquium in Sport Administration II 3 Units
Prerequisite(s): Admission to PhD program or consent of instructor.
Description: This course will provide students with the opportunity to analyze and discuss theories related to the marketing of sport and exercise organizations. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

SPAD 705. Doctoral Seminar in Social Issues in Sport 3 Units
Prerequisite(s): Admission to PhD program or consent of instructor.
Description: This course will provide students with the opportunity to analyze and discuss theories related to social issues in sport. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Sustainability (SUST)

SUST 518. Urban Demography and GIS 3 Units
Prerequisite(s): SUST 101; completion of Math/Quantitative Reasoning General Education requirement; Junior or Senior standing.
Description: A spatial analysis of the distribution, characteristics, growth and change of the population of a metropolitan area.
Note: Cross-listed with PLAN 618 and PADM 621.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
SUST 703. Land and Ecosystem Conservation 1-3 Units
Term Typically Offered: Fall Only
Prerequisite(s): Consent of Instructor and Director.
Description: A study of issues and methods concerning the conservation of ecosystems (e.g., prairies) sensitive lands (e.g., farmland, historic areas, national parks). Issues of sustainability will receive particular attention. May be offered as a seminar. Cross-listed with LAW 903. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Theatre Arts (TA)

TA 520. Acting Workshop 3 Units
Prerequisite(s): Departmental consent.
Description: Practical problems in the art of acting approached in a laboratory setting.
Note: Meets with TA 530.
Note: May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 521. Stage Movement I 3 Units
Prerequisite(s): Consent of instructor.
Description: Development of physical expressiveness and agility for the stage.
Note: One section each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 522. Stage Movement II 3 Units
Prerequisite(s): Consent of instructor.
Description: Development of physical expressiveness and agility for the stage.
Note: One section each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 523. Stage Speech I 3 Units
Prerequisite(s): Consent of instructor.
Description: Development of voice production and articulation for the stage.
Note: One section each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 524. Stage Speech II 3 Units
Prerequisite(s): Consent of instructor.
Description: Development of voice production and articulation for the stage.
Note: One section each semester.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 525. Advanced Studies in Acting 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Group studies in specialized areas of actor training. Two-to-six hours of laboratory work, as announced in Schedule of Courses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 526. Tools for a Global Theatre 3 Units
Prerequisite(s): Permission of instructor.
Description: Cultural issues, perspectives, and approaches to theatre in various parts of the world will be addressed using both classical and contemporary texts. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 529. Actors Theatre of Louisville Workshop 3 Units
Prerequisite(s): Senior standing or faculty consent.
Description: Organization of commercial theatre, auditioning techniques, and employment possibilities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 530. Directing Workshop 3 Units
Prerequisite(s): permission of instructor.
Description: Practical problems in the art of directing approached in a laboratory setting.
Note: Meets with TA 520.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 532. Advanced Directing the Black Experience 3 Units
Prerequisite(s): Permission of instructor.
Description: Advanced techniques for staging plays from an African-centered perspective. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 533. Stage Management 3 Units
Prerequisite(s): Consent of instructor.
Description: Techniques of production management during audition, rehearsal, and performance. Practical project required. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TA 540. Problems in Technical Theatre 3 Units
Prerequisite(s): TA 241.
Description: Topics vary by semester, but may include: A) Welding, B) Sound Design, C) Technical Direction, and/or D) Special Topics. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
TA 541. Topics: Scene Design
Prerequisite(s): TA 340.
Description: Topics vary by semester, but may include: A) Scene Design, B) Advanced Scene Design, C) Design for the Camera, and/or D) Design for Lyric Theatre. E. Special Topics
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 543. Scenographic Techniques
Prerequisite(s): TA 340.
Description: Topics vary by semester, but may include: A) CAD for Stage Design, B) Sketching and Rendering - Scenery, C) Scene Painting, and/or D) Special Topics
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 545. Topics: Costume Design
Prerequisite(s): TA 345.
Description: Topics vary by semester, but may include: A) Advanced Costume Design, B) Costume History, C) Costume Construction, D) Sewing Techniques, E) Sketching and Rendering - Costumes, and/or F) Special Topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 547. Advanced Black Aesthetic on Stage
Prerequisite(s): Permission of instructor.
Description: Exploration of scenic, costume, lighting, and sound design from an Afrocentric perspective.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 549. Topics: Lighting Design
Prerequisite(s): TA 349.
Description: Topics vary by semester, but may include: A. Lighting Design, B. Advanced Lighting Design, and/or C. Special Topics
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 550. Culminating Undergraduate Experience Practicum - CUE
Prerequisite(s): 90 credit hours.
Description: The Theatre Arts CUE course is an independent project that demonstrates the student’s ability to conceptualize, analyze, communicate and direct, design, perform, manage or otherwise take a leadership role in a work for the stage.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 555. Special Topics in Theatre
Prerequisite(s): Consent of instructor.
Description: Advanced study of specific areas of theatre arts.
Note: May be repeated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

1-3 Units

TA 557. Advanced Hip-Hop Theatre
Prerequisite(s): Consent of instructor.
Description: Advanced exploration of hip-hop theatre and forerunners of hip-hop culture and art—including its relationship to African-American, American multicultural and postmodern sty--through discussion, reading, research and performance exercises.
Note: Undergraduate credit may not be earned for both this course and TA 357.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 560. Directed Study in Theatre History
Prerequisite(s): Consent of instructor.
Description: Survey of theatre history and literature, supplemented with directed reading of secondary sources.
Note: Meets with TA 360-TA 361.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 562. Advanced Black Dramatic Literature
Prerequisite(s): Permission of instructor.
Description: An examination of the drama of selected African-descended writers whose work stands out as exceptional in the realm of dramatic literature. The material will be explored by means of lectures, play readings, written responses, in-depth discussion, videos, student projects and presentations.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

Prerequisite(s): Permission of instructor.
Description: Examines the full range of African-American women working in theatre including playwrights, performers, designers, theorists, academics, and directors. Includes examination of plays by women of African descent.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units

TA 565. Advanced Theatre of the African World
Prerequisite(s): Permission of Instructor.
Description: Cross-cultural examination of the drama of the African-descended playwrights in the African Diaspora.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

3 Units
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 566</td>
<td>Advanced History of African-American Theatre</td>
<td>3</td>
<td>Permission of instructor.</td>
<td>Historical study of major approaches to the aesthetics of stage management.</td>
<td>May be repeated for credit for a total of 15 hours.</td>
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<td>Term Typically Offered: Occasionally Offered</td>
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<tr>
<td>TA 577</td>
<td>Asian Theatre</td>
<td>3</td>
<td>Permission of instructor.</td>
<td>Advanced techniques of play analysis, emphasizing the theatre artist's role.</td>
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<td>TA 571</td>
<td>Playscript Interpretation - WR</td>
<td>3</td>
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<td>TA 600</td>
<td>Thesis Guidance</td>
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<td>Practical projects in theatre performance (acting, directing, stage management).</td>
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<td>TA 601</td>
<td>Introduction to Graduate Study in Theatre</td>
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<td>Performance Theory</td>
<td>3</td>
<td>Permission of instructor.</td>
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<td>TA 622</td>
<td>Graduate Movement I-IV</td>
<td>3</td>
<td>Permission of instructor.</td>
<td>Specialized movement studies, covering such areas as character movement, stage combat, circus techniques, and mime.</td>
<td>One section each semester.</td>
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<td>TA 623</td>
<td>Graduate Voice I-IV</td>
<td>3</td>
<td>Permission of instructor.</td>
<td>Specialized vocal studies, covering such areas as character voice, dialects, expansion of vocal range, and integration of voice and body.</td>
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<td>TA 625</td>
<td>MFA Performance Project I</td>
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<td>Practical projects in theatre performance (acting, directing, stage management).</td>
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<td>TA 626</td>
<td>Thesis Performance</td>
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<td>Consent of instructor.</td>
<td>Practical project in theatre performance (acting, directing, stage management) specifically associated with the writing of the Master of Fine Arts monograph.</td>
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<td>Theatre Internship</td>
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Translations Program (TRPR)

TRPR 661. Foundations of Translation and Interpreting 3 Units
Prerequisite(s): Admission to the Graduate Certificate in Translation Program or MA in Spanish.
Description: Provides a theoretical background to the field of intercultural communication in its written and oral modalities. Introduces skills necessary for active practice in the main subfields of the profession. Requires reflection on ethical and cultural implications in the field.
Note: Cross-listed with SPAN 661.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 662. Education and Social Service Interpreting 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Explores the educational and social service interpreting settings; provides intensive practice in consecutive interpreting and sight translation at the intermediate-advanced level.
Note: Cross-listed with SPAN 662.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 663. Legal Translation and Interpreting 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Covers the fundamentals of legal translation and court interpretation in English and Spanish. Specific topics include legal language and terminology, legal text genres (birth certificates, academic transcripts, court proceedings and testimony); and translation and interpreting theories.
Note: Cross-listed with SPAN 663.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 664. Approaching African-American Theatre 3 Units
Description: Theoretical approaches and practical methods of performing, designing, staging and teaching theatre, literature, and art that springs from an afrocentric perspective. Designed to prepare students to integrate African-American topics into their teaching and to collaborate successfully as artists.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 665. Tools for a Global Theatre 3 Units
Prerequisite(s): Permission of instructor.
Description: Cultural issues, perspectives and approaches to theatre in various parts of the world will be addressed using both classical and contemporary texts.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 666. Approaching African-American Theatre 3 Units
Prerequisite(s): Permission of instructor.
Description: Provides intensive practice in applying tools and techniques of computer-assisted translation (localization; terminology, translation memory and project management) to the translation of a variety of text types (video games, medical texts, technical documentation, etc).
Note: Cross-listed with SPAN 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 667. Computers in Translation 3 Units
Prerequisite(s): SPAN 661/TRPR 661 or consent of instructor.
Description: Provides intensive practice in applying tools and techniques of computer-assisted translation (localization; terminology, translation memory and project management) to the translation of a variety of text types (video games, medical texts, technical documentation, etc).
Note: Cross-listed with SPAN 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

TRPR 669. Final Translation and Interpreting Project 3 Units
Prerequisite(s): Completion of at least 9 graduate hours in the translation and interpreting curriculum.
Description: The student will work on an extensive translation of an interpreting project in order to demonstrate mastery of the basic linguistic and technical skills in the field.
Note: Cross-listed with SPAN 669.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Urban and Public Affairs (UPA)

UPA 562. Administrative Law and Process 3 Units
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 602. Urban Policy and Governance 3 Units
Description: A study of urban policy and its impacts upon cities and particular segments of the population. Emphasizes the content, evolution, and consequences of national urban policy. Examines centralization and decentralization of metropolitan government, intergovernmental systems, and their relationship to policy implementation.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 603. Urban Economics 3 Units
Prerequisite(s): PLAN 500, ECON 500, or consent of instructor.
Description: Application of economic theory to urban policy issues including metropolitan development and job creation, poverty, crime, transportation, environment, spatial structure, and other issues.
Note: Cross-listed with PADM 640, ECON 605, and PLAN 603.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 606. Research Methods 3 Units
Description: Teaches students how to create, use and manage information systems central to policy research in urban and public affairs, and how to reach or recommend policy decisions drawn from these data bases.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 608. Regression Analysis 3 Units
Description: New course added for the doctoral program, focusing on statistical regression analysis for social science.
Note: Course fee.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 610. Urban Theory and Public Affairs 3 Units
Description: How theory and interpretive history illuminate the contemporary nature of the city. Introduces epistemological concerns and the nature of knowledge in describing the city and its urban form.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 621. Policy Analysis and Program Evaluation 3 Units
Description: The course describes techniques of practical program evaluation as well as the institutional context of policy formulation, adoption, implementation, and evaluation. Process evaluation, qualitative approaches, outcome monitoring, natural experiments, quasi-experiments, ratings, use of expert judgment, surveys, role-playing, and focus group topics are covered. The course also discusses theories of policy making, the policy environment, agenda setting and decision making.
Note: Cross-listed with PADM 603.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 623. Comparative Urban Development 3 Units
Description: Examines urban development in a cross national perspective. Traces the formulation, strategy and implementation or management of urban development policy in a number of nations. While the emphasis is on North America and West Europe, the lessons have broader relevance for other parts of the world, and will be applied to developing areas.
Note: Cross-listed with PLAN 635.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 624. Economic Conditions and Forecasting 3 Units
Prerequisite(s): ECON 600 or ECON 605/UPA 603/PLAN 603/PADM 640.
Description: Develops quantitative tools for the analysis & forecasting of economic phenomena. Both structural & time models are presented. Basic econometric methods are used to fit models & evaluate their forecasting properties.
Note: Cross-listed with PLAN 628 & ECON 620.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 625. Macroeconomic Theory 3 Units
Prerequisite(s): ECON 500 and elementary calculus.
Description: Aggregate income and employment theory. Classical and Keynesian models; monetary and fiscal policy; the theory of growth and cycles.
Note: Cross-listed with ECON 650.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 628. Microeconomic Theory 3 Units
Prerequisite(s): ECON 500/PLAN 500.
Description: A thorough examination of the theory of household and firm. Determination of price under different market structures.
Note: Cross-listed with ECON 660.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### UPA 629. Geographic Information Systems

**Prerequisite(s):** Consent of instructor.  
**Description:** Application of GIS to real world projects. An emphasis will be placed on the development of a digital spatial database.  
**Note:** Cross-listed with GEOG 657 & PLAN 608.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 630. Politics of Urban Policy

**Description:** A study of how urban policy is formed at national, state, and local levels. The role of power is explored as an instrument in policy making. Examines how interest groups interact with government as well as the parts played by pro-growth and anti-growth coalitions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 632. Independent Study

**Description:** Opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research or practice that is not included in regular courses in the curriculum.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 640. Economic Development

**Description:** The course provides an introduction to the many facets of economic development, including the context, theory, process and practice of economic development, planning, and policy.  
**Note:** Cross-listed with PLAN 626, PADM 645, POLS 603.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 647. Public Budgeting and Finance

**Description:** Examines public budgeting and finance from economic, political, and institutional perspectives. Topics include: budget process, approaches and techniques of budgeting, ethics, intergovernmental fiscal relations, revenue raising, capital budgeting, debt administration and risk management.  
**Note:** Cross-listed with PADM 604 & PLAN 609.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 648. Housing and Community Development

**Description:** Examines issues in housing and community development.  
**Note:** Cross-listed with PADM 625, PLAN 617.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 649. Urban Elite and Economic Development

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 650. Urban Policy and Administration

**Term Typically Offered:** Fall Only  
**Description:** An introduction to basic issues in urban policy and administration of urban policy. Emphasis on urban policy processes and administrative systems used to implement them includes different political frameworks that describe urban dynamics and includes recent research findings on selected urban policy issues.  
**Note:** Cross-listed with PADM 606.  
**Note:** Course fee.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 651. Historic Preservation and Sustainable Practice

**Term Typically Offered:** Spring Only  
**Description:** This course is a graduate level course on historic preservation, examining sustainable practices in Louisville and other regions. The course examines architecture and the built environment as it relates to historic preservation, urban revitalization, and the contributions of other disciplines such as urban planning, economics, and political science to the principles and practice of preservation.  
**Note:** Course is cross-listed with PADM 628 and PLAN 625.  
**Note:** Course fee.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 652. Urbanism in the Global South: Cities and Space

**Term Typically Offered:** Fall Only  
**Description:** This course is a reading-based seminar. We learn about processes and practices within the Latin American and African city from spatial, cultural, economic and political perspective.  
**Note:** Cross-listed with LALS 510 and GEOG 510.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 653. Advanced Organizational Behavior

**Description:** Concepts and theories from the behavioral sciences that explain human behavior within organizations. Individual behavior and group dynamics with special emphasis on techniques and methods to improve individual functioning and interpersonal processes.  
**Note:** Cross-listed with PADM 625.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

### UPA 655. Foundations of Public Administration

**Term Typically Offered:** Spring Only  
**Description:** Using the classic writings in the field of public administration for the past 150 years, the course explores the theoretical foundations of public administration and applies the theories to current practice in public administration.  
**Note:** Cross-listed with PADM 600, PLAN 613, and POLS 625.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
UPA 662. Administrative Law and Processes

Description: Study of processes of lawmaking and application by governmental executive departments. Encompasses substantive issues facing agencies in designing and implementing effective regulation and court efforts to interpret and control agencies’ activities.

Note: Cross-listed with PADM 610/POLS 615.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 663. Social Equity and the Public Sector

Description: This course will provide a comprehensive review of social equity in American public administration.

Note: Cross-listed with PADM 663 and PLAN 663.

Note: Course fee.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 664. Cultural Competency and Action

Description: This course primarily focuses on the professional development of public administrators. It seeks to improve their knowledge about diverse issues of discrimination and prejudice in the public sector. It provides a framework for examining factors related to discrimination as well as racism, sexism, and heterosexism in terms of political history, power, stereotyped perceptions and practices across society, groups and among individuals.

Note: Cross-listed with PADM 664 and PLAN 664.

Note: Course Fee.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 667. Human Resources Management

Description: Basic theories, public policies, laws, regulations, problems, and prospects of human resource development and management within the context of the public sector.

Note: Cross-listed with PADM 642 and PLAN 611.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 670. Sustainable Development and Planning

Description: The course is designed to address the institutions and governance in sustainable development, and will take an interdisciplinary approach. The course will be open to all graduate students in any program at UofL.

Note: Cross-listed with PADM 670 and PLAN 670.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 672. Public Management

Description: Administration of the organization from the point of view of top level management. Formulation and administration of policies and practices. Development of long-range strategic plans as well as the diagnosis, analysis, and evaluation of specific organizational problems.

Note: Cross-listed with PADM 605, PLAN 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 673. Behavioral Dimensions of Urban Sustainability

Prerequisite(s): Graduate standing.

Description: The course is designed to address the behavioral dimensions of Urban Sustainability.

Note: Cross-listed with PADM 673, PLAN 673.

Note: The course will be open to graduate students in any program at UofL.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 674. Sustainable Urbanism

Prerequisite(s): Graduate standing.

Description: The course is designed to address the theoretical issues, concepts and viewpoints on Sustainable Urbanism from sociological, psychological, economical, political, historical, design, and planning perspectives. The course will be open to graduate students in any program at UofL.

Note: Cross-listed with PADM 674, PLAN 674.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 675. Introduction to Sustainability

Prerequisite(s): Graduate standing.

Description: It is a graduate survey course of theory, issues and challenges in the area of sustainability.

Note: Cross-listed with PLAN 675, PADM 675.

Note: Open to any graduate student at UofL.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 676. Sustainable Social-Ecological Systems

Prerequisite(s): Graduate standing.

Description: The course is designed to address the social and ecological frameworks for understanding and applying sustainability concepts in both theory and practice.

Note: Cross-listed with PADM 676, PLAN 676.

Note: The course will be open to all graduate students in any program at UofL.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
UPA 678. Land Use and Planning Law 3 Units
Description: Examination of legal issues related to planning and land use activities in the U.S. It explores the legal standards by which land use is regulated, planned. Students will study various legal and regulatory tools, including ordinances, state and federal legislation, and judicial decisions. Considerable attention will be given to planning perspectives on legal problems, as well as legal perspectives on planning problems. Note: Cross-listed with LAW 904, PLAN 605.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 679. Environmental Policy 3 Units
Description: Survey of environmental issues and policies designed to address those issues.
Note: Cross-listed with PADM 627, PLAN 620 and POLS 627.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 680. Special Topics in Urban and Public Affairs 1-6 Units
Description: An advanced study of one or more selected topics or issues related to the study of Urban and Public Affairs.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 682. Urban Design 3 Units
Description: Covers theories, principles, and processes of urban design, including applications to actual design problems.
Note: Cross-listed with PLAN 622.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 683. Land Use Planning 3 Units
Description: This course provides an understanding of the history and current characteristics of land use planning and policy. Topics include the comprehensive plan, regulatory controls such as zoning, fiscal mechanisms of control, land use and environmental disputes, regional planning and growth management.
Note: Cross-listed with PLAN 607.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 684. Planning Theory and History 3 Units
Description: This course will introduce the historic foundation of modern urban planning, and will investigate the central themes in planning theory, using both historical and contemporary contexts to assist in the understanding of its role in shaping planning thought and practice.
Note: Cross-listed with PADM 607 and PLAN 601.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 687. Environmental Policy and Natural Hazards 3 Units
Description: Explores the relationship of environmental policy and planning with natural hazards and disasters, with an emphasis on preparation for and mitigation of impacts.
Note: Cross-listed with PADM 630 & PLAN 623.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 690. Urban Transportation Planning 3 Units
Prerequisite(s): ECON 605, PADM 640, PLAN 603 or UPA 603.
Description: Analysis of characteristics and costs of existing and innovative urban transportation systems. Role of planning methods in estimating transportation usage and choosing optimal plans.
Note: Cross-listed with PLAN 624.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 696. Urban Infrastructure 3 Units
Description: Planning, financing, implementation and operation of urban infrastructure systems.
Note: Cross-listed with PLAN 621.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

UPA 700. Dissertation Research 1-12 Units
Prerequisite(s): Permission of program advisor.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

Women's and Gender Studies (WGST)

WGST 512. Gender, Race, Work, and Welfare 3 Units
Prerequisite(s): 9 hours of social sciences course work at the 300-level or above; or consent of instructor.
Description: Introduction to theory and research on labor market and welfare state with focus on gender and race/ethnicity as they influence women's experiences of and ideas about work and welfare. (Social Sciences)
Note: Cross-listed with PAS 512 and SOC 512.
Note: Credit may not be earned for both WGST 512 / PAS 512 / SOC 512 and WGST 612 / PAS 612 / SOC 612.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 513. U. S. Social Justice Movements 3 Units
Prerequisite(s): Junior-level standing.
Description: Course will begin with abolitionism, then concentrate on social justice upsurges of the 20th century, with emphasis on women in the civil rights and Black liberation movements. (Social Sciences)
Note: Cross-listed with HIST 513, PAS 513, SCHG 513.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 520. Women's Personal Narratives
Prerequisite(s): ENGL 102 or ENGL 105 or WGST 199; Junior standing.
Description: Course examines issues such as race, class, religion, geography, and sexual orientation surrounding the writing/reading of women's personal narratives (e.g., diaries, letters, autobiographies, oral histories, biographies, and films) from the 19th and 20th centuries.
Note: Cross-listed with ENGL 554.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 523. Gender and Popular Music - WR
Description: Course explores the way gender structures the production, distribution, and consumption of popular music, including variety of genres in the past and present, with attention to the intersectional roles of race, class, and sexuality. (Humanities)
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 530. Feminism in Western Civilization, 1790-1920 - WR
Description: Comparative analysis of feminist movements in the United States, Britain, and Europe, stressing intellectual background, social composition, goals and political strategies. (Social Sciences)
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be received for WGST 530 or HIST 588 and WGST 630.
Note: Junior-standing recommended.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 531. Women in the Twentieth Century in Europe and the U.S. - WR
Prerequisite(s): Junior standing.
Description: The history of women in Western society, including Europe and the U.S. in the twentieth century. Includes political, economic, social, and cultural developments. (Social Sciences)
Note: Cross-listed with HIST 583.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for WGST 531/HIST 583 and WGST 631.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 532. History of American Sexualities - WR
Prerequisite(s): Junior standing.
Description: The course focuses on sexual behaviors and meanings in America from the colonial period to the late twentieth century and how sexual meanings impact people’s identities, choices, and social positions. The course also concerns the interaction of gender, race, and class.
Note: HIST 211 and HIST 212 is recommended.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for this course and HIST 589.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 533. Women in 19th-Century America - WR
Prerequisite(s): ENGL 102 or ENGL 105, or the equivalent.
Description: Course focuses on material conditions, ideologies, and knowledge-systems that shaped American women’s lives in the 19th century, with attention to race, class, and regional differences. (Social Sciences)
Note: Cross-listed with HIST 506.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both HIST 506 / WGST 533 and WGST 633.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 538. American Woman in Sports
Description: The role of the American woman in sport. Examination of concepts about women, sport, and society in contemporary and historical perspectives. (Social Sciences)
Note: Cross-listed with SPAD 529.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 540. Women's Health in Africa - WR
Prerequisite(s): Senior standing.
Description: Examination of population growth, early marriage, family size and cultural and religious beliefs on reproductive health of contemporary African women. (Social Sciences)
Note: Cross-listed with PAS 562.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both WGST 540/PAS 562 and WGST 640/PAS 662.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 543. Black Women's Voices - WR  
**Prerequisite(s):** At least 6 credit hours in Social Science or Humanities or consent of faculty.  
**Description:** Global synopsis of black women's studies and social thoughts. Highlights roadblocks and bridges experienced. Captures race, gender, class and spatial dimensions. (Social Sciences)  
**Note:** Cross-listed with PAS 542.  
**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
**Note:** Credit may not be earned for both WGST 543/PAS 542 and WGST 643/PAS 643.

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 547. Language, Race, Class, and Gender  
**Prerequisite(s):** Junior standing.  
**Description:** Course investigates the intersections of linguistic behavior with questions of race, class and gender. Students will gain an understanding of the multiple characteristics of communication. (Humanities)  
**Note:** Cross-listed with PAS 547.  
**Note:** Credit may not be earned for this course and PAS 547.

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 556. Feminist Theory - WR  
**Description:** Survey of the history and scope of the feminist tradition with emphasis upon liberal, radical, Marxist, socialist, psychoanalytic, and postmodern approaches to feminist theory. (Social Sciences)  
**Note:** Cross-listed with POLS 568.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
**Note:** Credit may not be earned for both WGST 556/POLS 568 and WGST 656/POLS 658.

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 558. Women in Developing Countries - WR  
**Description:** Follows the progress of the international women's movement by focusing on the emergence of women leaders and their work in developing countries since the First World Conference on Women, 1975 to the present. (Social Sciences)  
**Note:** Cross-listed with POLS 563.  
**Note:** Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 550. Feminist Philosophical Literature  
**Prerequisite(s):** Junior standing.  
**Description:** Examination of central works by feminist philosophers in such sub-disciplines as ethics, political philosophy, and epistemology. (Humanities)  
**Note:** Cross-listed with PHIL 518.

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 571. Francophone Women Writers - WR  
**Prerequisite(s):** Faculty consent.  
**Description:** Readings of literary and non-literary texts by women of the French-speaking world. (Humanities)  
**Note:** Cross-listed with ML 506.  
**Note:** Approved for the Arts & Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 582. Gender, Race and Culture in Health Care  
**Prerequisite(s):** A Philosophy course at 300-level or above, or consent of instructor.  
**Description:** Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.  
**Note:** Cross-listed with PHIL 582.

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 584. Women in East Asian History  
**Description:** The history of women in China from ancient times to the twentieth century, with comparisons to women's experiences in Japan, Korea, and Vietnam. (Social Sciences)  
**Note:** Cross-listed with HIST 584.

For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 589. Independent Study: Women's and Gender Studies: Humanities  
**Prerequisite(s):** Restricted to students who have a 3.0 cumulative GPA and have completed a minimum of 12 hours in WGST courses; permission of instructor.  
**Description:** Provides opportunity for a student to do advanced interdisciplinary, humanities work on a Women's and Gender Studies topic.  
For class offerings for a specific term, refer to the Schedule of Classes.

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WGST 590. Independent Study: Women's and Gender Studies: Social Sciences 1-3 Units
Prerequisite(s): Restricted to students who have a 3.0 cumulative GPA and have completed a minimum of 12 hours in WGST courses; permission of instructor.
Description: Provides opportunity for a student to do advanced interdisciplinary, social sciences work on a Women's and Gender Studies topic. Topics announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 591. Topics in Women's and Gender Studies: Social Sciences 3 Units
Term Typically Offered: Occasionally Offered
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, social sciences perspective. Topics announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 592. Topics in Women's and Gender Studies: Social Sciences (WR) - WR 3 Units
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, social sciences perspective. Topics announced in Schedule of Courses.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 593. Topics in Women's and Gender Studies: Humanities 3 Units
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, humanities perspective. Topics announced in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 594. Topics in Women's and Gender Studies: Humanities (WR) - WR 3 Units
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, humanities perspective. Topics announced in Schedule of Courses.
Note: Approved for the General Education requirement in written communication (WR).
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 600. Research/Writing in Women's and Gender Studies. 1 Unit
Prerequisite(s): Restricted to students admitted to WGST MA or graduate certificate program.
Description: Course focuses on building research and academic writing skills. Students will become familiar with primary/secondary-source databases and with the process and structure of academic writing in the social sciences and humanities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 601. Feminist Research in the Humanities 3 Units
Prerequisite(s): Restricted to students admitted to WGST MA or graduate certificate program, or permission of instructor.
Description: Course examines ways feminist concerns have influenced research questions in the humanities (history; philosophy; religious, cultural, and literary studies). Readings focus on gender issues as they relate to power, representation, race, ethnicity, class, sexuality. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 602. Feminist Research and Methods in the Social Sciences 3 Units
Prerequisite(s): Admission to WGST MA or graduate certificate program, or Sociology MA, or permission of instructor.
Description: Through readings across social sciences disciplines (i.e.; in sociology, anthropology, psychology, economics, political science), course will analyze many ways feminist theory and methodology have influenced research in the social sciences.
Note: Cross-listed with SOC 672.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 603. History of U.S. Feminisms 3 Units
Prerequisite(s): Restricted to graduate students.
Description: Course focuses on social, ideological, and institutional dynamics that have shaped the development of feminisms in the U.S. since 1840. Students will read primary and secondary sources related to self-described feminist movements as well as other movements aimed at gender and social justice.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 612. Gender, Race, Work, and Welfare 3 Units
Description: Introduction to theory and research on labor market and welfare state with focus on gender and race/ethnicity as they influence women's experiences of and ideas about work and welfare.
Note: Cross-listed with PAS 612 and SOC 612.
Note: Credit may not be earned for both WGST 612 and PAS 612.
Note: Credit may not be earned for both WGST 512 and PAS 512.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 615. Seminar in the Sociology of Disabilities 3 Units
Description: Intensive examination of sociological perspectives on medicine, culture, and science to examine the meanings, experiences, demographics, and impact of disability in historical and contemporary contexts.
Note: Cross-listed with SOC 642.
Note: Credit may not be earned for this course and WGST 415 or SOC 442.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 620. Women's Personal Narratives  
**Description:** Course examines issues such as race, class, religion, geography, and sexual orientation surrounding the writing/reading of women's personal narratives (e.g., diaries, letters, autobiographies, oral histories, biographies, and film) from the 19th and 20th centuries.  
**Note:** Credit may not be earned for this course and WGST 520 or ENGL 554.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 622. The Body in Popular Media  
**Description:** Examines the relationship between culture and the body, focusing on how Western philosophy, as well as gender, race and class, have constructed popular images of and attitudes toward the body.  
**Note:** Credit may not be earned for both WGST 522 and WGST 622.  
**Note:** WGST 522 does not carry graduate credit.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 625. Art and Trauma  
**Prerequisite(s):** Graduate standing.  
**Description:** Representations of Trauma in the Visual Arts is an advanced exploratory seminar examining the changing relationships between trauma and its representation in the twentieth century. Beginning with the Holocaust, the course charts a trajectory from this most profound of collective traumas, to the refinement of clinical definitions of trauma (e.g., PTSD) in the wake of the Vietnam War, the development of trauma studies in the humanities in the 1990s, to the recent “pictorial turn” within scholarship on trauma. This historical framework will be brought to bear upon the dynamics of how trauma and visuality have been approached by scientists, scholars, and artists. Each week’s reading and viewing materials will offer students an example of historical or clinical account of trauma, a secondary or applied analysis, and an artist’s original work that responds to the particular traumatic event under consideration. In this regard, students will be encouraged to negotiate the discursive relationships between history, theory, and practice.  
**Note:** Cross-listed with ARTH 625.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 630. Feminism in Western Civilization  
**Description:** Comparative analysis of feminist movements in the United States, Britain, and Europe, stressing intellectual background, social composition, goals and political strategies.  
**Note:** Credit may not be received for WGST 530 or HIST 588 and WGST 630.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 631. Women in the Twentieth Century in Europe and the U.S.  
**Description:** The history of women in Western society, including Europe and the U.S. in the twentieth century. Includes political, economic, social, and cultural developments.  
**Note:** Credit may not be earned for WGST 531/HIST 583 and WGST 631.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 632. History of American Sexualities  
**Description:** The course focuses on sexual behaviors and meanings in America from colonial period to the late twentieth century and how sexual meanings impact people’s identities, choices, and social position. The course also examines the interaction of gender, race, and class.  
**Note:** Credit may not be earned for this course and WGST 532 or HIST 589.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 633. Women in 19th-Century America  
**Description:** Course focuses on material conditions, ideologies, and knowledge-systems that shaped American women's lives in the 19th century, with attention to race, class, and regional differences.  
**Note:** Credit may not be received for this course and for HIST 506 or WGST 533.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 640. Women's Health in Africa  
**Prerequisite(s):** Graduate standing.  
**Description:** Examination of population growth, early marriage, family size, and cultural and religious beliefs of reproduction on the health of the contemporary African woman.  
**Note:** Cross-listed with PAS 662.  
**Note:** Credit cannot be earned for both WGST 540/PAS 562 and WGST 640/PAS 662.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)  

WGST 643. Black Women's Voices  
**Prerequisite(s):** Graduate standing.  
**Description:** Global synopsis of back women's studies and social thoughts. Highlights roadblocks and bridges experienced. Captures race, gender, class and spatial dimensions.  
**Note:** Cross-listed with PAS 643.  
**Note:** Credit may not be earned for both WGST 543/PAS 542 and WGST 643/PAS 643.  

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
WGST 645. Southern Women: Black and White 3 Units
Description: Course focuses on questions of identity for southern women, black and white, by contrasting stereotypes and ideals with realities for these women in the slave, Jim Crow, and modern south.
Note: Cross-listed with PAS 645.
Note: Credit may not be earned for this course and WGST 545 or PAS 545.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 656. Feminist Theory 3 Units
Description: Survey of the history and scope of the feminist tradition with emphasis upon liberal, radical, Marxist, socialist, psychoanalytic, and post modern approaches to feminist theory. (Social Sciences)
Note: Cross-listed with POLS 668.
Note: Credit may not be earned for both WGST 556/POLS 568 and WGST 656/POLS 656.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 682. Gender, Race and Culture in Health Care 3 Units
Prerequisite(s): Admission to Bioethics MA or consent of instructor.
Description: Examines ways social groupings and systems affect the kind of health care needed and the kind people receive. Addresses both biases and stereotypes, and empirical claims about biologically-based differences.
Note: Cross-listed with PHIL 682 & BETH 682.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 689. Independent Study: Women's and Gender Studies-Humanities 1-3 Units
Description: Provides opportunity for a student to do advanced interdisciplinary, humanities work on a Women's Studies topic.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 690. Independent Study: Women's & Gender Studies-Social Sciences 1-3 Units
Prerequisite(s): Consent of instructor.
Description: Provides opportunity for a graduate student to do advanced interdisciplinary, social sciences work on a Women's Studies topic.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 691. Advanced Topics in Women's & Gender Studies-Social Sciences 3 Units
Prerequisite(s): Graduate standing.
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, social sciences approach.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 692. Advanced Topics in Women's & Gender Studies-Humanities 3 Units
Prerequisite(s): Graduate standing.
Description: Provides advanced study of a special topic related to women or gender from an interdisciplinary, humanities perspective.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 695. Women's Studies Practicum 3 Units
Prerequisite(s): Consent of chair.
Description: 150 hours of field work in a community organization, culminating in a portfolio, research project, or grant proposal.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 698. Master's Degree Project 3 Units
Prerequisite(s): Consent of chair.
Description: Students pursuing the non-thesis option will complete a master's project as a requirement for the MA. The master's project will consist of a culminating essay or research portfolio in accordance with departmental guidelines.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

WGST 699. Thesis 3-6 Units
Prerequisite(s): Consent of instructor.
Description: For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
The University of Louisville Graduate Catalog works best with the free Adobe Reader. Get the latest version of Adobe Reader (http://www.adobe.com).

Printing Tip: Right-click on the section title in the Bookmarks menu (left) of the PDF and click "Print Page(s)" to print only that section. You can also enter the page range in the "Pages to Print" section of the Print dialog.

Graduate Catalog Archive

The following catalogs contain descriptions of the various policies, graduate programs, degree requirements, and related matters intended to be in effect at the University of Louisville for the indicated catalog year.

Catalog Archive

2017-2018 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2017-18.pdf)
2016-2017 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2016-2017.pdf)
2015-2016 (http://louisville.edu/graduatecatalog/archive/2015-2016/strt)*
2013-2014 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2013-2014.pdf)
2012-2013 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2012-2013.pdf)
2011-2012 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2011-2012.pdf)
2010-2011 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2010-2011.pdf)
2008-2010 (http://catalog.louisville.edu/graduate/archive/Graduate_Catalog_2008-2010.pdf)

* Catalog is in the process of being converted to PDF. Please view the archived online catalog.
** Beginning with the 2007-2008 Graduate Catalog, the online catalog is the official version. For years 2005-2007 and earlier, the printed copy of the catalog is the official version.
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